

# Service Manual

 **PIONEER®**  
*The Art of Entertainment*

# TOYOTA

ORDER NO.  
**CRT1615**

The chapter 1 of this Service Manual will not be reprinted. On your additional orders, we may supply only the chapter 2. For the chapter 1, please make copies and attach to the chapter 2 at your side if necessary.

# **LEXUS LS400** **AUDIO SYSTEM** **HEAD UNIT**

VEHICLE	DESTINATION	PRODUCED AFTER	TOYOTA PART No.	PIONEER MODEL No.
LEXUS LS400	U.S.A., CANADA	November 1994	86120-50360	KEX-P8156ZT/UC
	EUROPE		86120-50390	KEX-P8156ZT/EW
	UNITED KINGDOM		86120-50380	KEX-P8256ZT/EW
	AUSTRALIA		86120-50410	KEX-P8256ZT/AU
	HONG KONG		86120-50420	KEX-P8256ZT/ES
	MIDDLE EAST		86120-50400	KEX-P8156ZT/ES

Manufactured for TOYOTA  
by PIONEER ELECTRONIC CORPORATION

PUB. NO. **CRT1615**

CHAPTER 1

<KEX-P8156ZT/EW>

ID No.P3702

<KEX-P8256ZT/EW>

ID No.P3703

<KEX-P8156ZT/UC>

ID No.P1703

<KEX-P8256ZT/AU>

ID No.P2702

<KEX-P8156ZT/ES>

ID No.P7505

<KEX-P8256ZT/ES>

ID No.P2704



- **Dolby noise reduction** manufactured under license from Dolby Laboratories Licensing Corporation. "Dolby" and the double-D symbol are trademarks of Dolby Laboratories Licensing Corporation.
- **See the separate manual CX-529 (CRT1507) for the cassette mechanism description.**
- **The cassette mechanism employed in this model is one of 1L mechanism series.**
- **These models have been installed in LEXUS LS400.**

Model	Supplementary Model	Part No.	ID No.
KEX-P8256ZT/EW	KEX-P8256ZT-91/EW	86120-50380	P3703
KEX-P8256ZT/AU	KEX-P8256ZT-91/AU	86120-50410	P2702
KEX-P8256ZT/ES	KEX-P8256ZT-91/ES	86120-50420	P2704
KEX-P8156ZT/EW	KEX-P8156ZT-91/EW	86120-50390	P3702
KEX-P8156ZT/UC	KEX-P8156ZT-91/UC	86120-50360	P1703
KEX-P8156ZT/ES	KEX-P8156ZT-91/ES	86120-50400	P7505

- **These models are used in combination with following models.**

These models are used in combination with following models.			
Head Unit	Amplifier	CD Multi Player	Rear Controller
KEX-P8256ZT/EW	GM-8256ZT/WL	CDX-P8056ZT/WL	CD-R82ZT/WL
KEX-P8256ZT/AU			
KEX-P8256ZT/ES			
KEX-P8156ZT/EW	GM-8056ZT/E		
KEX-P8156ZT/UC			
KEX-P8156ZT/ES			

- **Supplementary model is identical to the original model except for the addition of following items.**

Description	Part No.
Polyethylene Bag	CEG1026
Carton	CHA2025
Contain Box	CHD2025
Protector	CHP1678
Protector	CHP1679

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## 1. SPECIFICATIONS

### General

Power source.....	13.2 V(10.5V—16.0V allowable)
Grounding system.....	Negative type
Dimensions(chassis) .....	178(W) × 107 (H) × 119 (D) mm
(nose) .....	250(W) × 107 (H) × 46 (D) mm
Weight .....	1.9 kg
Preout output level.....	-7 dBs ± 4dB
Tone controls (bass).....	±9 dB ± 3dB (125 Hz)
(mid) .....	±10 dB ± 3dB (1 kHz)
(treble) .....	±10 dB ± 3dB (10 kHz)
Loudness contour .....	-2 dB ± 1 dB (125 Hz / 1 kHz)(MAX-30dB)
.....	-2.5 dB ± 1 dB (10k Hz / 1 kHz)(MAX-30dB)

### Tape player

Tape .....	Compact cassette tape (C-30—C-90)
Tape speed .....	4.76 cm/sec.(+0.14 cm/sec.,-0.05 cm/sec.)
Wow & flutter .....	less than 0.2 % (WRMS)
Fast forward/rewind time .....	less than 120 sec. for C-60
Stereo separation.....	more than 35 dB
Signal-to-noise ratio .....	more than 41 dB

### FM(UKW) tuner

Frequency range(EW, AU, ES).....	87.5 — 108.0 MHz
(UC) .....	87.75 — 107.9 MHz
Usable sensitivity.....	9 dBf ± 5dB (mono, S/N: 30 dB)
Signal-to-noise ratio .....	more than 55 dB
Distortion.....	less than 3.0% (65 dBf, 1 kHz, stereo)
Stereo separation .....	more than 25 dB (65 dBf, 1 kHz)

### MW tuner

Frequency range(EW, AU, ES) .....	531 — 1,602 kHz
(UC).....	530 — 1,710 kHz
Usable sensitivity(EW, UC, ES).....	27 dBμ ± 5dB (S/N: 20 dB)
(AU) .....	24 dBμ ± 5dB (S/N: 20 dB)

Selectivity.....	more than 50 dB (±9 kHz)
Signal-to-noise ratio.....	more than 45 dB(74dB μ)
Distortion.....	less than 1.0% (74dB μ)
Stereo separation(AU) .....	more than 18 dB

### LW tuner(EW)

Frequency range.....	153 — 281 kHz
Usable sensitivity .....	31 dBμ ± 5dB (S/N: 20 dB)
Selectivity.....	more than 50 dB (±9 kHz)
Signal-to-noise ratio.....	more than 40 dB(74dB μ)
Distortion.....	less than 1.0% (74dB μ)

### SW1 tuner(KEX-P8156ZT/ES)

Frequency range .....	2,940 — 3,575 kHz
.....	3,580 — 4,215 kHz
.....	4,540 — 5,175 kHz
.....	5,820 — 6,455 kHz
.....	7,100 — 7,735 kHz
Usable sensitivity .....	32 dBμ ± 6dB (S/N: 20 dB)
Signal-to-noise ratio.....	more than 40 dB(74dB μ)
Distortion.....	less than 1.0% (74dB μ)

### SW2 tuner(KEX-P8156ZT/ES)

Frequency range .....	9,500 — 10,135 kHz
.....	11,580 — 12,215 kHz
.....	15,100 — 15,735 kHz
.....	17,500 — 18,135 kHz
.....	21,340 — 21,975 kHz
Usable sensitivity .....	32 dBμ ± 6dB (S/N: 20 dB)
Signal-to-noise ratio.....	more than 40 dB(74dB μ)
Distortion.....	less than 1.0% (74dB μ)

## 2. SYSTEM BLOCK DIAGRAM

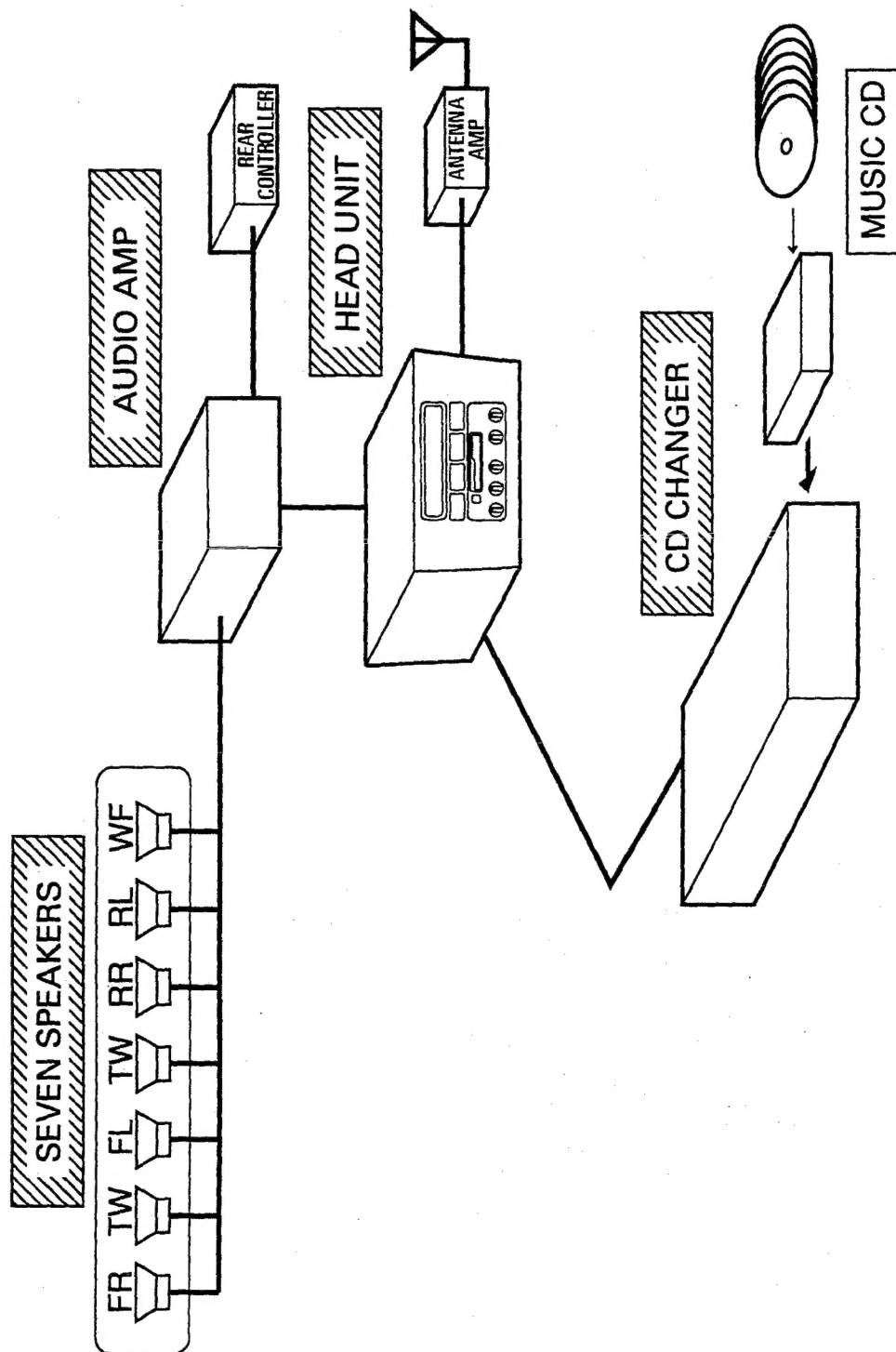


Fig.1

### 3. DISASSEMBLY

#### ● Removing the Case(not shown)

1.Remove the eight screws, and then remove the case.

#### ● Removing the Grille Assy(Fig.2)

1.Remove the two screws.

2.Disconnect the connector.

3.Disconnect the four stoppers indicated by arrows, and then remove the grille assy.

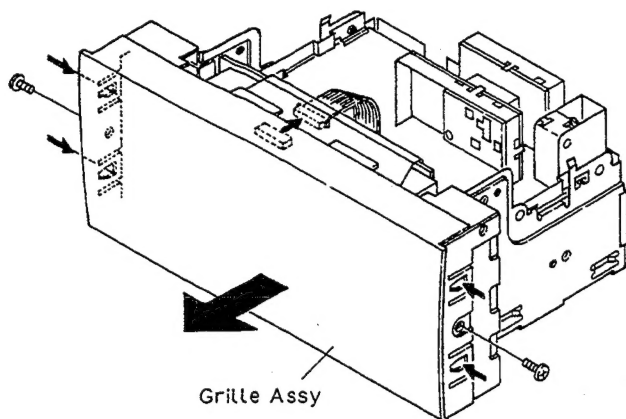


Fig.2

#### ● Removing the Cassette Mechanism Module

1.Remove the four screws .

2.Disconnect the connector.

3.Remove the cassette mechanism module.

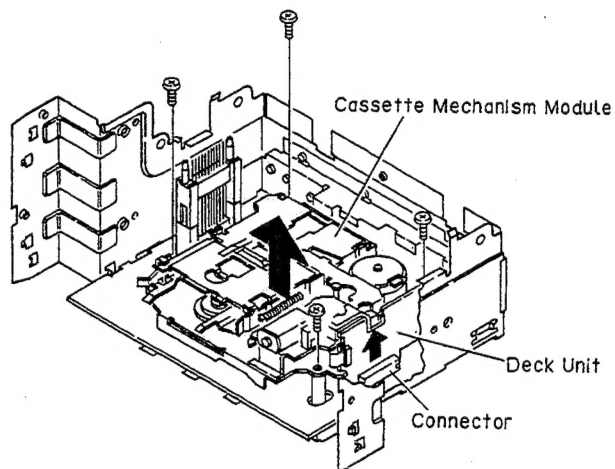


Fig.4

#### ● Removing the Tuner P.C.Board

1.Remove the tuner P.C.board indicated by arrow.

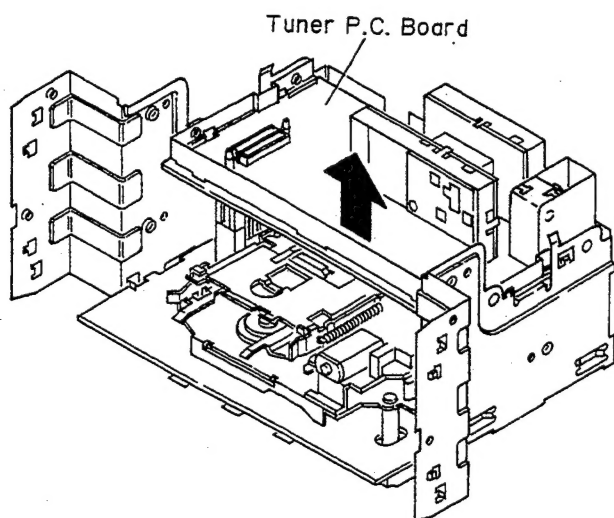


Fig.3

#### ● Removing the Control P.C.Board

1.Remove the three screws, and then remove the control P.C.board.

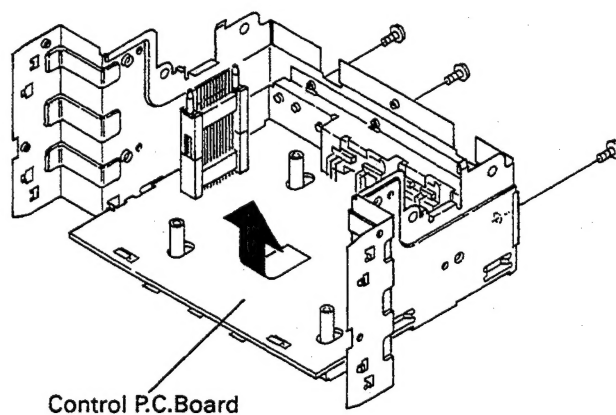


Fig.5

## 4. ANTI-THEFT SECURITY SYSTEM

### 4.1 HOW TO INPUT THE THREE DIGIT SECURITY SYSTEM CODE

#### 1. ACCESS MODE

First...

BE SURE THAT:

- the radio unit is turned off
- the ignition switch is in "ACC"

Then...

HOLD the "1" and "6" buttons, and simultaneously PUSH and HOLD the "POWER. VOL" knob in, until "SEC" appears, then release buttons.

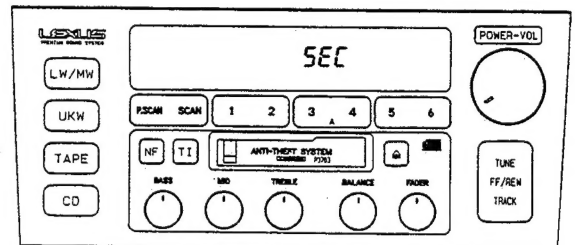


Fig.6

#### 2. READY MODE

PRESS and HOLD the "TUNE[^]" button in and PRESS the "1" button. The display will read "▲▼---".

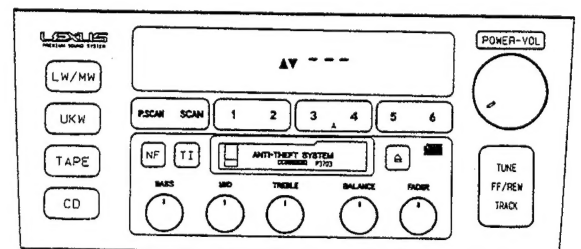


Fig.7

#### 3. INPUT MODE

**Note:** User has up to ten seconds to input each digit.

Now you're ready to input a three digit Identification number.

To set the **first** ID digit:

- PRESS "1" repeatedly until the desired number appears on the display

To set the **second** ID digit:

- PRESS "2" repeatedly until the desired number appears on the display

To set the **third** ID digit:

- PRESS "3" repeatedly until the final desired number appears on the display

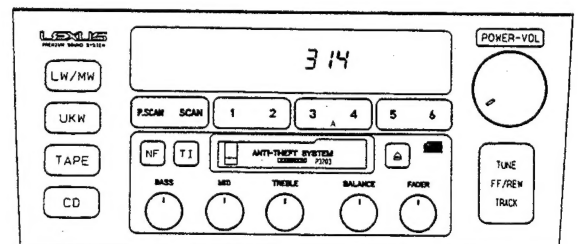


Fig.8

**EXAMPLE:** If the desired ID number is 314, you'd press "1" four times, press "2" twice, and press "3" five times. (Code digit range zero through nine.)

#### 4. SET MODE

With the ID number now appearing on the display:

- PRESS the "SCAN" button and HOLD it in until "SEC" appears for a few seconds, then it will GO DARK.

**NOTE:** 1) CREATE AN ID NUMBER EASY TO REMEMBER.

2) KEEP ID NUMBER IN A RELIABLE PLACE.

3) DON'T LEAVE ID NUMBER IN THE VEHICLE!

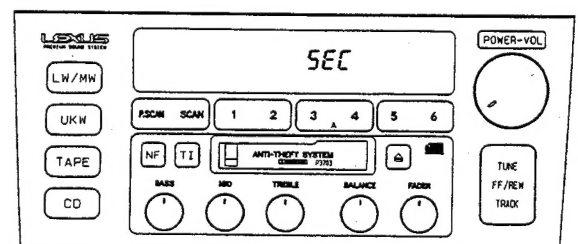


Fig.9

## 4.2 HOW TO CHANGE THE THREE DIGIT SECURITY SYSTEM CODE

### 1. ACCESS MODE

First...

BE SURE THAT:

- the radio unit is turned off
- the ignition switch is in "ACC"

Then...

HOLD the "1" and "6" buttons, and simultaneously PUSH and HOLD the "POWER. VOL" knob in, until "SEC" appears, then release buttons.

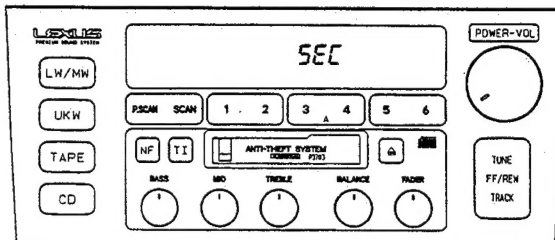


Fig.10

### 2. READY MODE

PRESS and HOLD the "TUNE [^]" button in and PRESS the "1" button. The display will read "▲▼---".

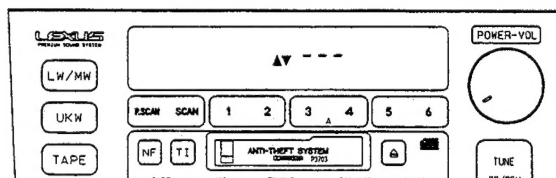


Fig.11

### 3. INPUT MODE

Input existing three digit ID numbers.

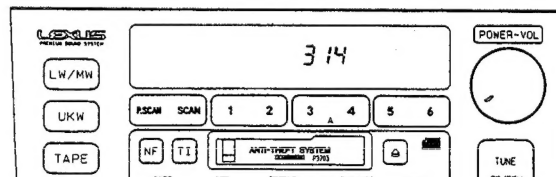


Fig.12

### 4. SET MODE

Then, push "SCAN". The display will now read "---" continuously.

\*("Err" See "ERROR MESSAGE")

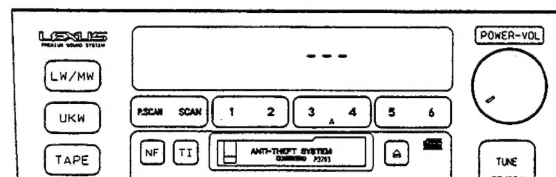


Fig.13

### 5. READY MODE

PUSH "TUNE [^]" and "1" simultaneously. The display will read "▲▼---".

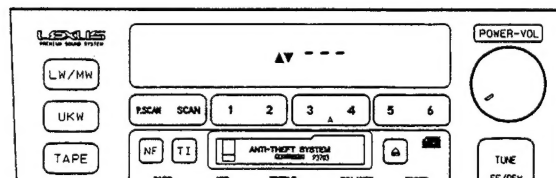


Fig.14

### 6. INPUT MODE

Now you're ready to input a new three digit ID number.

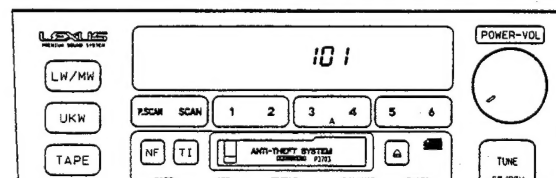


Fig.15

### 7. SET MODE

With the ID number now appearing on the display:

- PRESS the "SCAN" button and HOLD it in until "SEC" appears for a few seconds, then it will GO DARK.

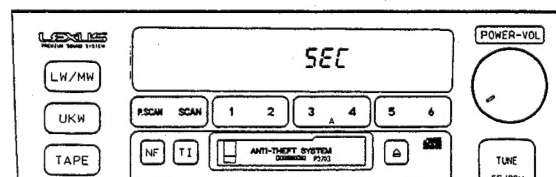


Fig.16

## 4.3 HOW TO CLEAR THE SECURITY CODE

### 1. ACCESS MODE

First...

BE SURE THAT:

- the radio unit is turned off
- the ignition switch is in "ACC"

Then...

HOLD the "1" and "6" buttons, and simultaneously PUSH and HOLD the "POWER. VOL" knob in, until "SEC" appears, then release buttons.

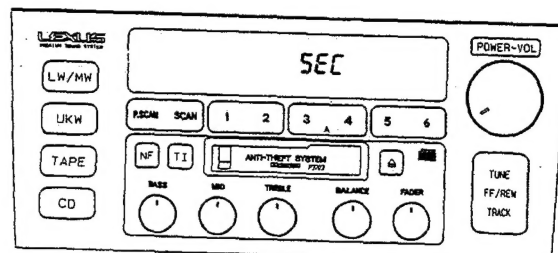


Fig.17

### 2. READY MODE

PRESS and HOLD the "TUNE [^]" button in and PRESS the "1" button. The display will read "▲▼---".

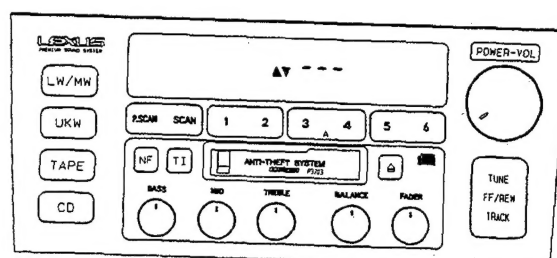


Fig.18

### 3. INPUT MODE

Input existing three digit ID numbers.

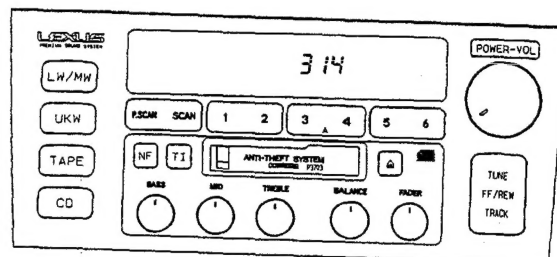


Fig.19

### 4. SET MODE

Then, push "SCAN". The display will now read "---" continuously.

\*("Err" See "ERROR MESSAGE")

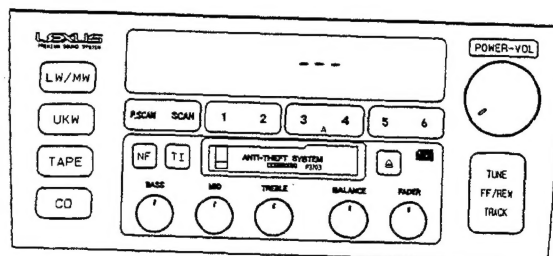


Fig.20

### 5. WAIT for ten seconds. The security system clears itself and the display will GO DARK.

\*(The security code should be cleared when the vehicle is resold.)

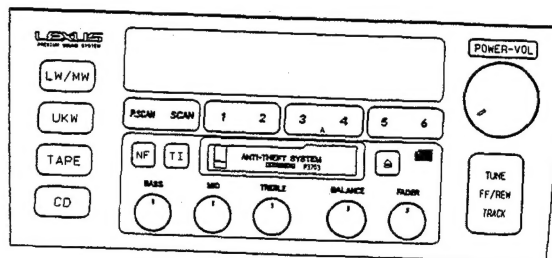


Fig.21

**4.4 HOW TO REACTIVATE A DISABLED ETR**

1. If the power is disconnected by an attempted theft or loss of battery power, the display will read **"SEC"** continuously when the key is "on". Also, when the ignition key is turned to ACC, none of the ETR functions will function.

**2. READY MODE**

PRESS and HOLD the "TUNE [^]" button in and PRESS the "1" button. The display will read **"▲▼----**

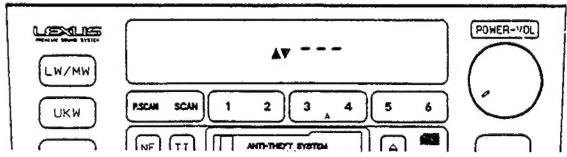


Fig.22

**3. INPUT MODE**

Now you're ready to input the existing three digit Identification number.

To set the **first** ID digit:

- PRESS "1" repeatedly until the desired number appears on the display

To set the **second** ID digit:

- PRESS "2" repeatedly until the desired number appears on the display

To set the **third** ID digit:

- PRESS "3" repeatedly until the final desired number appears on the display

**EXAMPLE:** If the desired ID number is 314, you'd press "1" four times, press "2" twice, and press "3" five times. (Code digit range zero through nine.)

**Note:** User has up to ten seconds to input each digit.

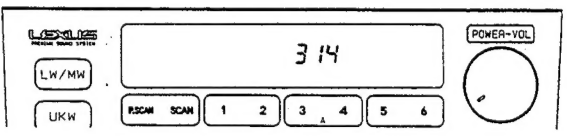


Fig.23

**4. SET MODE**

With the ID number now appearing on the display:

- PRESS the "SCAN" button and HOLD it in until **"SEC"** appears for a few seconds, then it will **GO DARK**.

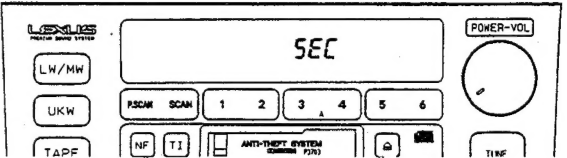


Fig.24

**ERROR MESSAGE**

If the wrong buttons are pushed, **"Err"** will appear before **"SEC"** appears. Go back to Step 2 and try again. Or, if the display returns to **"▲▼----**

**BE CAREFUL!** On the tenth wrong input, the ETR unit goes dead and must be reactivated by an authorized service station.

TO VERIFY that the ID number has been accepted as the security code, turn the key "off", then turn it back on, **"SEC"** should appear. Once the anti-theft system is properly set, **"SEC"** will appear on the display each time the ignition key is turned to **"ACC"** after being off.

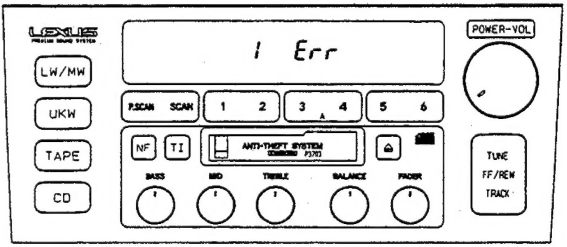


Fig.25



## 5. GENERAL GUIDE

### 5.1 TAPE(KEX-P8256ZT/EW)

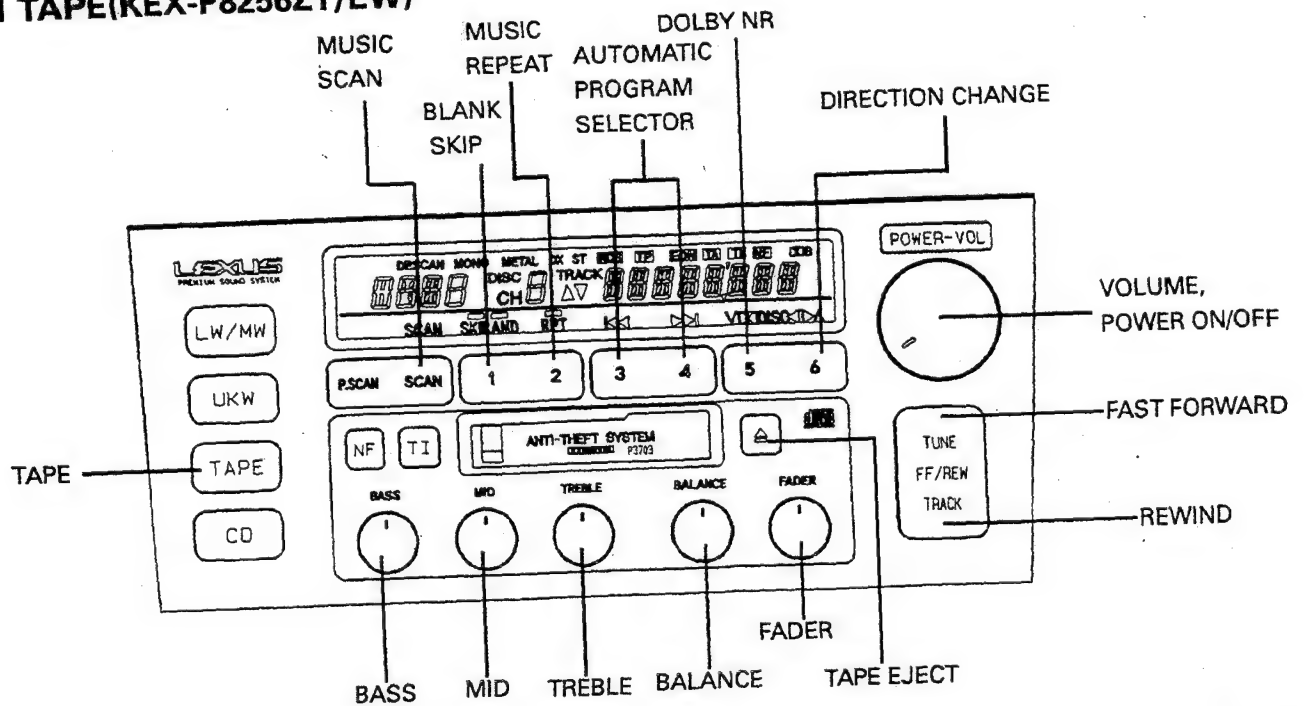


Fig.26

### 5.2 TAPE(KEX-P8256ZT/AU)

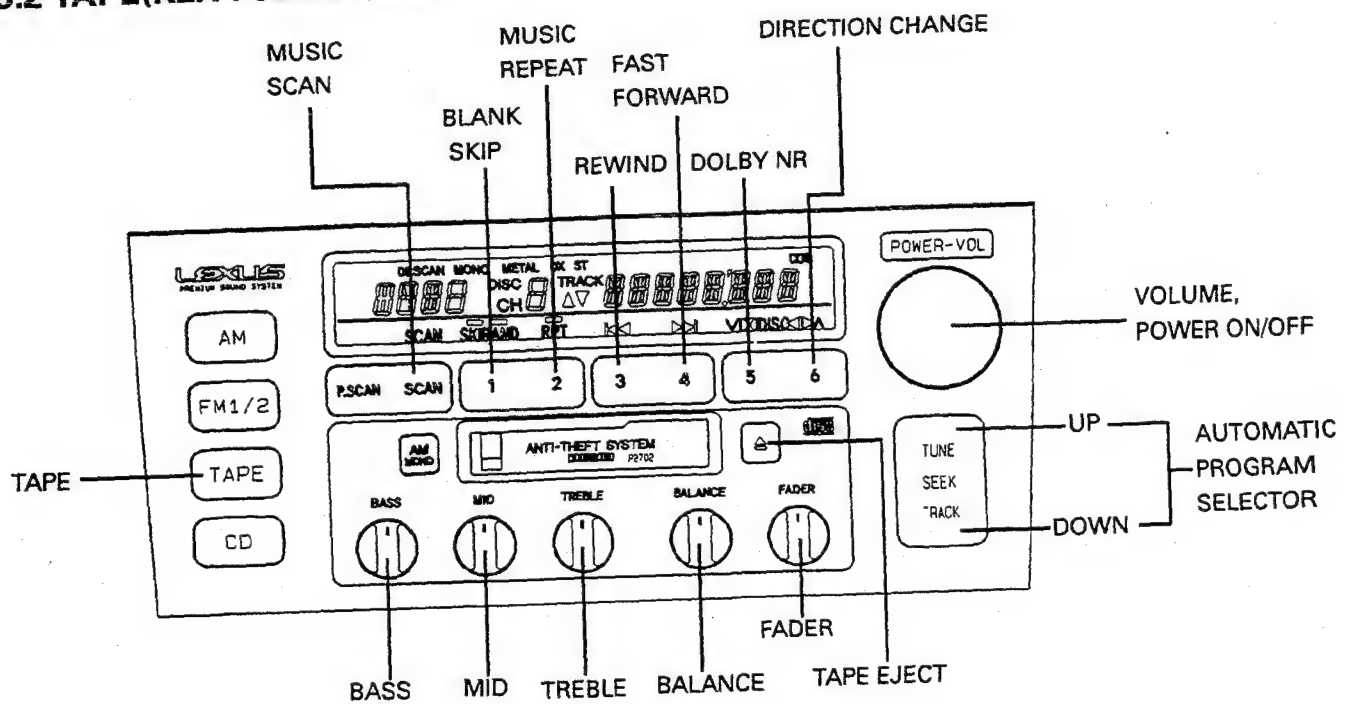


Fig.27

5.3 RADIO(KEX-P8256ZT/EW)

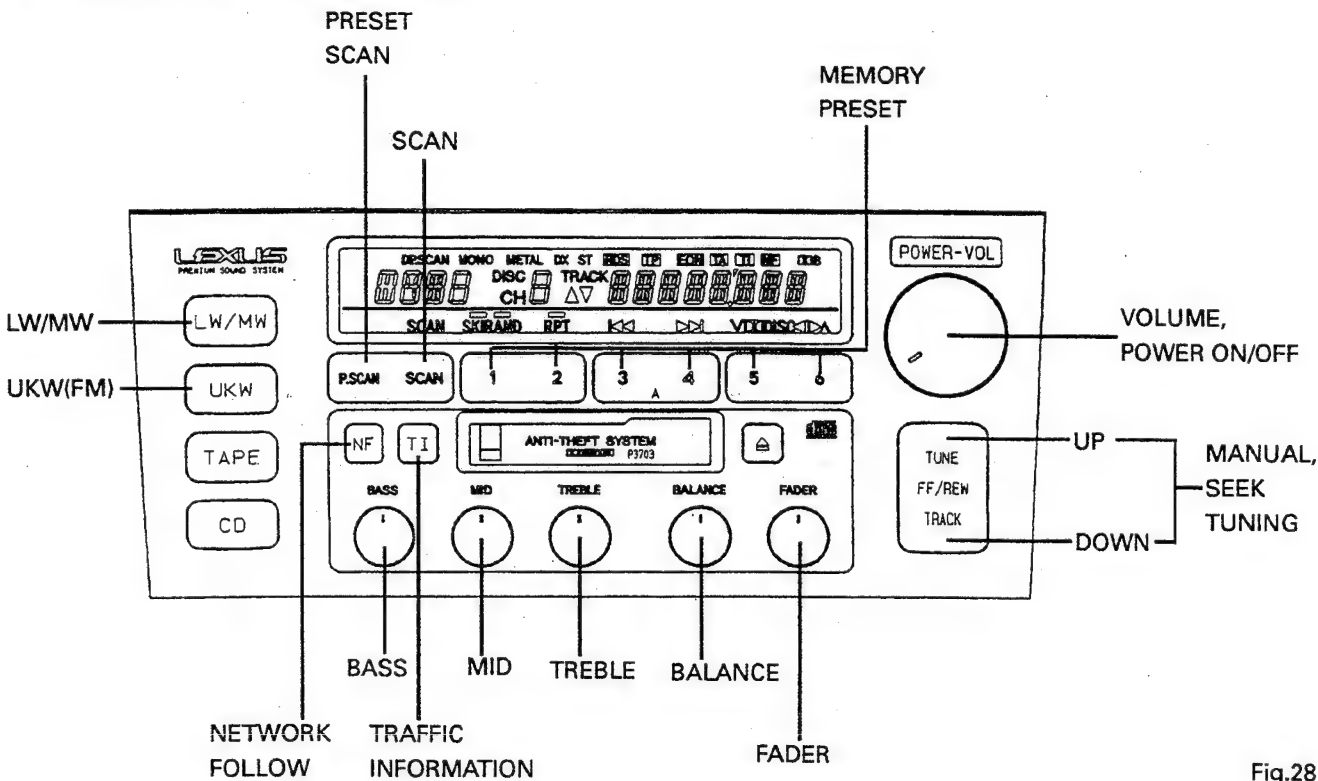


Fig.28

5.4 CD(KEX-P8256ZT/EW)

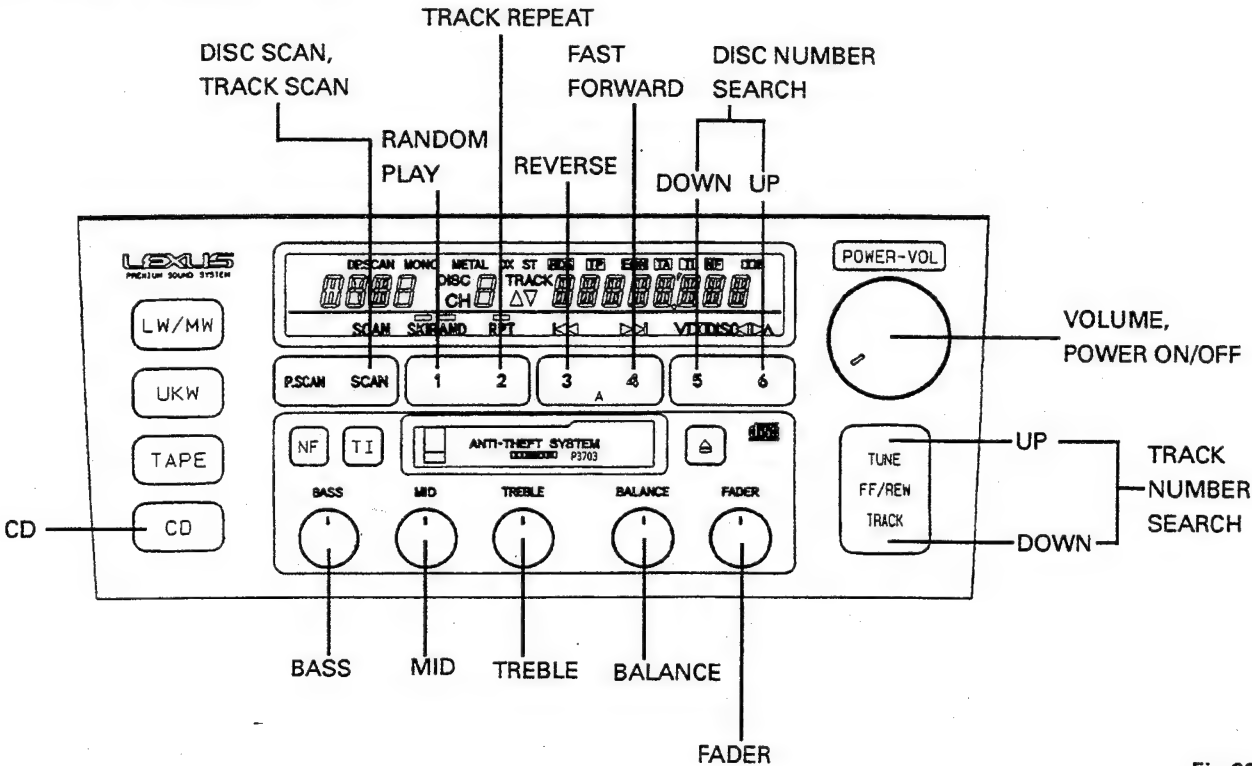


Fig.29

## 6. ERROR NUMBERS

### ● Indicating An Error Number

If the CD should fail to operate in CD multi player or if an error has taken place during the operation and resulted in an error, the player will enter into the error mode. And the cause of such error is numerically indicated.

This is aimed at assisting an analysis or repair.

#### 1) Basic Means of Display

- With ERROR indicated in "MODE" on IP-BUS Display date, an error code is transmitted by the use of MIN and SEC. Identical date are transmitted with MIN and SEC.
- Examples of Display ERR XX

#### 2) Error Codes

Error Code	Classification	Description	Detail / Cause
22	ELECTRIC	Carriage home failure	Unmovable to and from the inner circumference → Home switch failed and / or carriage improper moved
21	ELECTRIC	Focus failure	Focussing failed → Disc scarred or stained on the back or vibrating hard
25	ELECTRIC	SETUP failure	Spindle failed to lock or subcode extraordinary → Spindle defective, disc scarred or stained or vibrating hard
23	ELECTRIC	Blank Disc	Unrecorded CD-R The disc has been in inserted upside down
24	ELECTRIC	Search time out	Target address failed to reach → Carriage / tracking improperly and / or disc scarred
14	SYSTEM / MECHANISM	Power failure	Mechanism drive power supply VM short sense or no power supply → Switching transistor defective and / or power abnormal or LOAD terminal failure
12	MECHANISM	An error upon ejection	MAG SW release time has time out Elevation time out when eject
13	MECHANISM	An error while putting in and out the tray	Tray in / out time has time out Tray is caught when put in
11	MECHANISM	An error upon elevation	Elevation time has time out
16	MECHANISM	An error with an empty magazine inserted	No disc is available

\* Setup means a series of operations after focusing up to sound output.

7. CONNECTOR FUNCTION DESCRIPTION

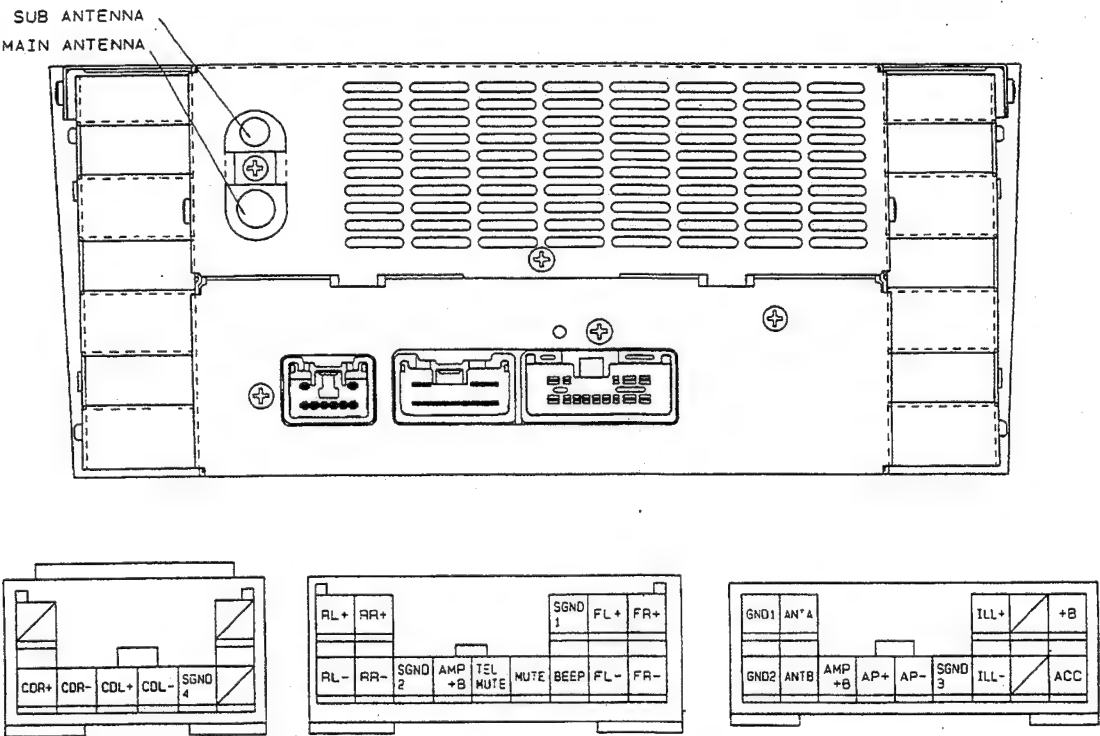


Fig.30

8. ADJUSTMENT

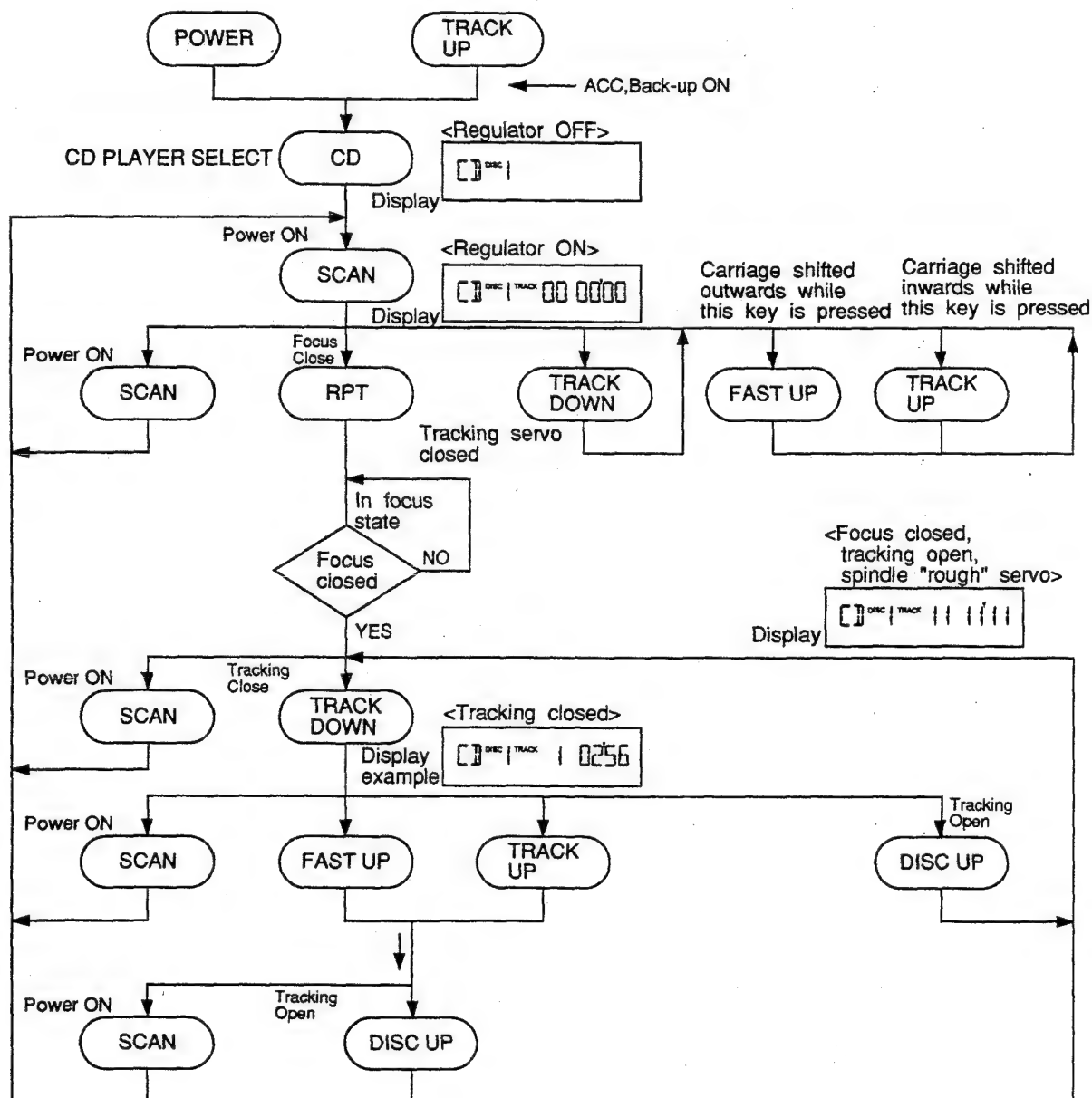
8.1 TEST MODE

- Test mode is mainly used adjustment of CDX-P8056ZT/WL.
- Switching to test mode  
While pressing the POWER, TRACK UP keys together, switch the back up and ACC ON.
  - Canceling test mode  
Switch the CD multi-player and this model back up and ACC OFF.

a) CD multi-player

	Function
SCAN	Regulator ON/OFF
FAST UP	FWD kick
TRACK UP	REV kick
TRACK DOWN	Tracking close
DISC UP	Tracking open
RPT	Focus close
RANDOM	Disc number up

## ● Flow Chart



8.2 TUNER / AUDIO SECTION

● Connection Diagram

NOTE:  
Select C1 so that total capacity of 80pF is attained from the direction of the receiver jack.  
Z: Output impedance of SSG.

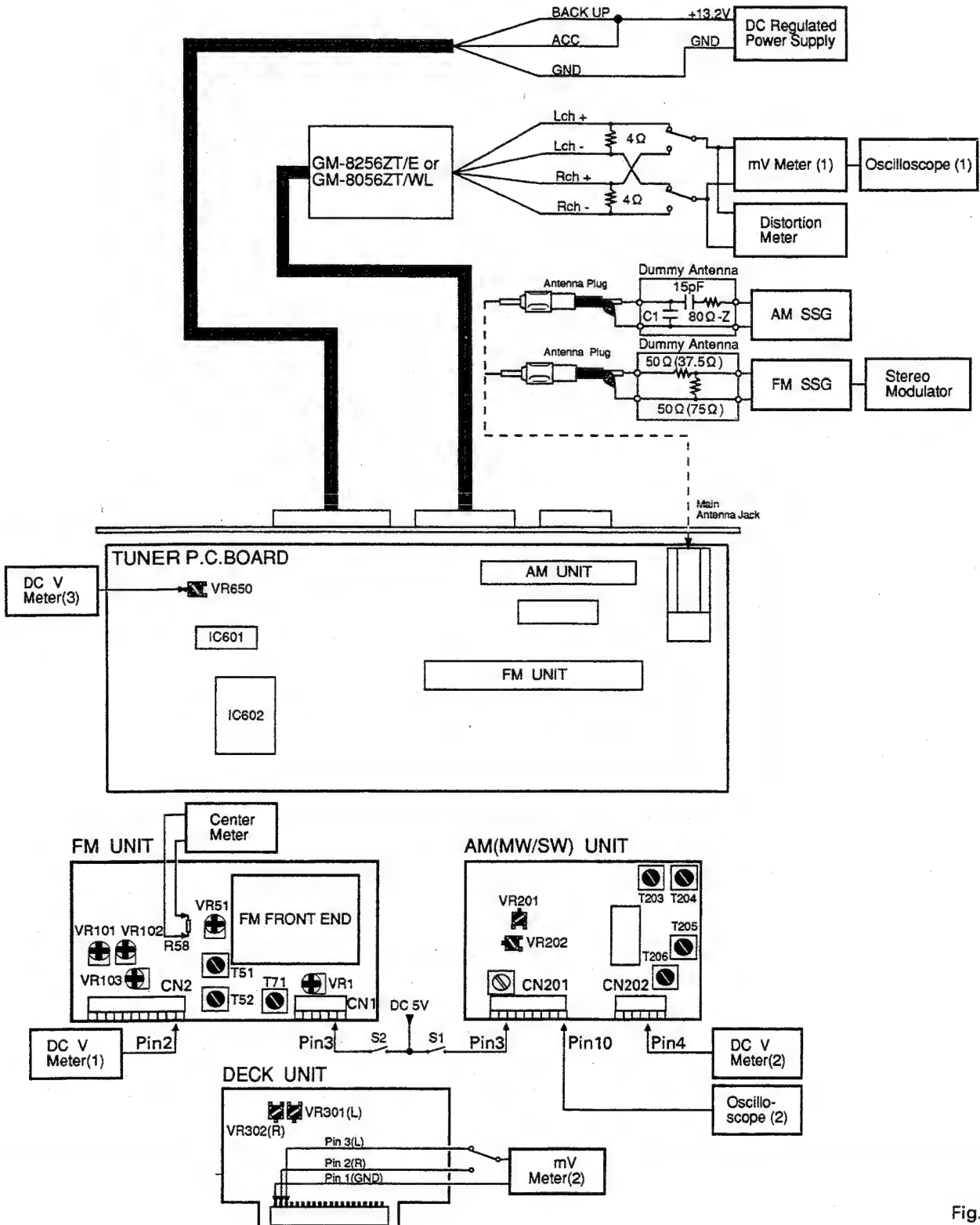


Fig.31

**AM(MW/SW) ADJUSTMENT(KEX-P8156ZT/EW, KEX-P8256ZT/EW, ES)**

	No.	AM SSG(400Hz,30%)		Displayed Frequency(kHz)	Adjustment Point	Adjustment Method (Switch Position)
		Frequency(kHz)	Level(dB $\mu$ )			
Track- ing	1	999	15	999	T204,T205, T206	mV Meter(1) : Maximum
SEEK (DX)	1	999	30	999	VR201	Oscilloscope(2) : $40 \pm 20$ mVpp (SEEK ON)
SEEK (LOC)	1	999	50	999	VR202	Oscilloscope(2) : $40 \pm 20$ mVpp (S1 ON)

**AM ADJUSTMENT(KEX-P8156ZT/UC)**

	No.	AM SSG(400Hz,30%)		Displayed Frequency(kHz)	Adjustment Point	Adjustment Method (Switch Position)
		Frequency(kHz)	Level(dB $\mu$ )			
Track- ing	1	1,000	15	1,000	T204,T205, T206	mV Meter(1) : Maximum
SEEK (DX)	1	1,000	40	1,000	VR201	Oscilloscope(2) : $40 \pm 20$ mVpp (SEEK ON)

**AM ADJUSTMENT(KEX-P8256ZT/AU)**

	No.	AM SSG(400Hz,30%)		Displayed Frequency(kHz)	Adjustment Point	Adjustment Method (Switch Position)
		Frequency(kHz)	Level(dB $\mu$ )			
Tuning- Volt	1	-	-	1,602	T203	DC V Meter(2) : $6.5 \pm 0.1V$
Track- ing	1	999	15	999	T204,T205, T206	mV Meter(1) : Maximum
SEEK (DX)	1	999	30	999	VR201	Oscilloscope(2) : $40 \pm 20$ mVpp (SEEK ON)
SEEK (LOC)	1	999	50	999	VR202	Oscilloscope(2) : $40 \pm 20$ mVpp (S1 ON)

**AM/SW ADJUSTMENT(KEX-P8156ZT/ES)**

	No.	AM SSG(400Hz,30%)		Displayed Frequency(kHz)	Adjustment Point	Adjustment Method (Switch Position)
		Frequency(kHz)	Level(dB $\mu$ )			
Tuning- Volt	1	-	-	21,975	T203	DC V Meter(2) : $6.0 \pm 0.1V$
Track- ing	1	999	15	999	T204,T205, T206	mV Meter(1) : Maximum
SEEK (DX)	1	999	30	999	VR201	Oscilloscope(2) : $40 \pm 20$ mVpp (SEEK ON)
SEEK (LOC)	1	999	50	999	VR202	Oscilloscope(2) : $40 \pm 20$ mVpp (S1 ON)

**FM(UKW) ADJUSTMENT(KEX-P8156ZT/EW, KEX-P8256ZT/EW)**

Modulation M1:MONO MOD., 400Hz 30%(22.5kHz Dev.)  
M2:MONO MOD., 400Hz 100%(75kHz Dev.)  
S1:STEREO MOD., 1kHz, L or R=30%(20.25kHz+7.5kHz Dev.)  
S2:STEREO MOD., 1kHz, L or R=90%(60.75kHz+7.5kHz Dev.)

	No.	FM SSG		Displayed Frequency(MHz)	Adjustment Point	Adjustment Method (Switch Position)
		Frequency(MHz)	Level(dBf)			
IF	1	98.1 M2	65	98.1	T51	Center Meter : 0
	2	98.1 M2	65	98.1	T52	Distortion Meter : minimum
	3	Repeat No.1-2 alternately so that the center meter indicates the 0 output and distortion meter indicates the minimum output.				
	4	98.1 S2	65	98.1	T71	Distortion Meter : minimum
Max. Mute	1	98.1 M1	65	98.1	-	mV Meter(1) : A
	2	98.1 M1	-∞	98.1	VR102	mV Meter(1) : A-20dB
ARC Sepa- ration	1	98.1 S1	39	98.1	VR101	mV Meter(1) : Separation 5dB
	2	98.1 S1	65	98.1	VR103	mV Meter(1) : Separation Maximum
	3	98.1 S1	39	98.1	VR101	mV Meter(1) : Separation 5dB
SD	1	98.1 M1	27 ± 1	98.1	VR51	DC V Meter(1) : Approx. 5V (SEEK ON)
LOC.H ATT.	1	98.1 M1	25 ± 1	98.1	VR1	DC V Meter(1) : Approx. 5V (S2 ON, SEEK ON)

**FM ADJUSTMENT(KEX-P8156ZT/UC)**

	No.	FM SSG		Displayed Frequency(MHz)	Adjustment Point	Adjustment Method (Switch Position)
		Frequency(MHz)	Level(dBf)			
IF	1	98.1 M2	65	98.1	T51	Center Meter : 0
	2	98.1 M2	65	98.1	T52	Distortion Meter : minimum
	3	Repeat No.1-2 alternately so that the center meter indicates the 0 output and distortion meter indicates the minimum output.				
Max. Mute	1	98.1 M1	65	98.1	-	mV Meter(1) : A
	2	98.1 M1	-∞	98.1	VR102	mV Meter(1) : A-20dB
ARC Separa- tion	1	98.1 S1	39	98.1	VR101	mV Meter(1) : Separation 5dB
	2	98.1 S1	65	98.1	VR103	mV Meter(1) : Separation Maximum
	3	98.1 S1	39	98.1	VR101	mV Meter(1) : Separation 5dB
SD	1	98.1 M1	33 ± 1	98.1	VR51	DC V Meter(1) : Approx. 5V (SEEK ON)



# KEX-P8256ZT,P8256ZT-91,P8156ZT,P8156ZT-9

## FM ADJUSTMENT(KEX-P8156ZT/ES, KEX-P8256ZT/AU, ES)

	No.	FM SSG		Displayed Frequency(MHz)	Adjustment Point	Adjustment Method (Switch Position)
		Frequency(MHz)	Level(dBf)			
IF	1	98.1 M2	65	98.1	T51	Center Meter : 0
Max.	1	98.1 M1	65	98.1	-	mV Meter(1) : A
Mute	2	98.1 M1	-∞	98.1	VR102	mV Meter(1) : A-20dB
ARC Separ- ation	1	98.1 S1	39	98.1	VR101	mV Meter(1) : Separation 5dB
	2	98.1 S1	65	98.1	VR103	mV Meter(1) : Separation Maximum
	3	98.1 S1	39	98.1	VR101	mV Meter(1) : Separation 5dB
SD	1	98.1 M1	27 ± 1	98.1	VR51	DC V Meter(1) : Approx. 5V (SEEK ON)
LOC.H ATT.	1	98.1 M1	25 ± 1	98.1	VR1	DC V Meter(1) : Approx. 5V (S2 ON, SEEK ON)

## RDS SL ADJUSTMENT(KEX-P8156ZT/EW, KEX-P8256ZT/EW)

No.	FM SSG		Displayed Frequency(MHz)	Adjustment Point	Adjustment Method (Switch Position)
	Frequency(MHz)	Level(dBf)			
1	98.1 M1	50	98.1	VR650	DC V Meter(3) : 2.3V ± 0.1V

## DOLBY B/C NR ADJUSTMENT(KEX-P8156ZT/UC,ES)

No.	Test Tape	Adjustment Point	Adjustment Method (Switch Position)
1	NCT-150(400Hz,200nwb/m)	VR301(Lch),VR302(Rch)	mV Meter(2) : -8.24dBs + 1.5dB -0.5dB (DOLBY NR Switch : OFF)

## DOLBY B NR ADJUSTMENT(KEX-P8156ZT/EW, KEX-P8256ZT/EW, AU, ES)

No.	Test Tape	Adjustment Point	Adjustment Method (Switch Position)
1	NCT-150(400Hz,200nwb/m)	VR301(Lch),VR302(Rch)	mV Meter(2) : -8.24dBs ± 1dB (DOLBY NR Switch : OFF)

## JIGS

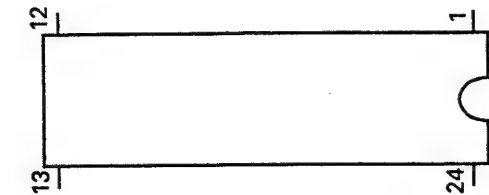
Product	Extension cable	External harness	Necessary products for repair
KEX-P8156ZT/EW KEX-P8256ZT/EW KEX-P8156ZT/UC KEX-P8256ZT/AU KEX-P8156ZT/ES KEX-P8256ZT/ES	24P Extension cable GGD1070 14P Extension cable GGD1071(X2) 9P Extension cable GGD1072 Extension cable for mechanism module GGD1019	System harness GGD1074 Speaker harness GGD1076	GM-8056ZT/E or GM-8256ZT/WL

<EX-P8256ZT,P8256ZT-91,P8156ZT,P8156ZT-91

● ICs  
● Pin Functions (LC72140M)

Pin No.	Pin Name	I/O	Output Format	Function and Operation
1	XOUT	O		Crystal oscillating element connection pin
2	PCE	I		Chip enable input from system control IC
3	PDO	O	C	Data output for system control IC
4	PCK	I		Serial clock output from system control IC
5	PDI	I		Data input from system control IC
6	SEEK	O	C	Seek output
7	MW/SW	O	C	MW/SW select output (KEX-P8156ZT/ES)
8	LOCL	O	C	LOC L output
9	LOCH	O	C	LOC H output
10	MONO	O	C	Forced mono output
11	MW/LW	O		MW / LW loop filter select output (KEX-P8156ZT/EW,P8256ZT/EW)
	SWL/H	O		SW low band / high band select output (KEX-P8156ZT/ES)
12	ST	I		FM stereo input
13	AMIFIN	I		AM IF signal input
14	RDS	I		RDS LK signal input
15	VDD			Power supply
16	AMVCO	I		AM VCO input
17	FMVCO	I		FM VCO input
18	GND			GND
19	EO1	O	C	PLL error output 1
20	EO0	O	C	PLL error output 0
21,22	NC			Not used
23	GND			GND
24	XOUT	O		Crystal oscillating element connection pin

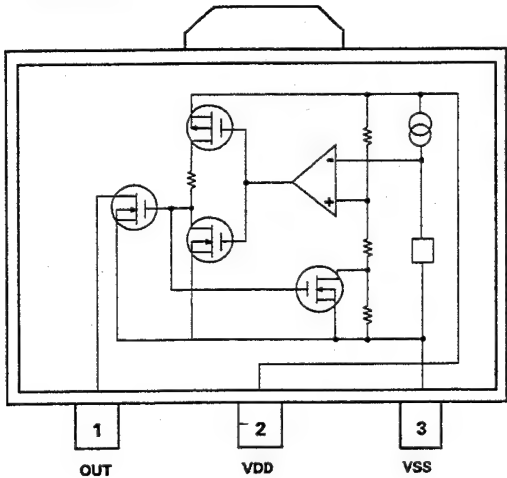
\*LC72140M



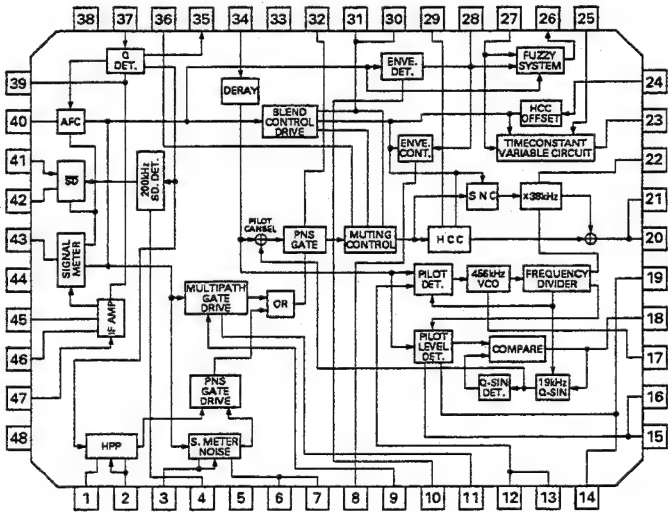
IC's marked by\* are MOS type.  
Be careful in handing them because they are very liable to be damaged by electrostatic induction.

Output Format	Meaning
C	C MOS output

\*S-80740AND4I



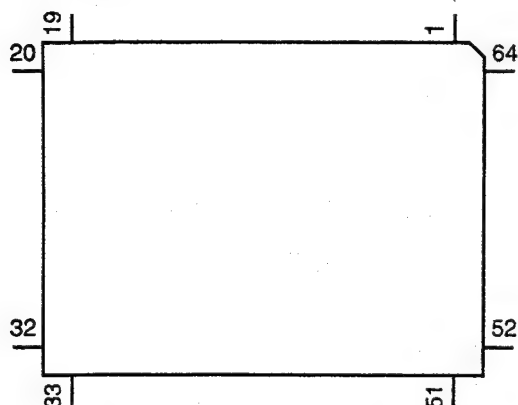
PA4021A



● **Pin Functions (PD0179B)**

Pin No.	Pin Name	I/O	Output Format	Function and Operation
1	RDSSEN	I		Enable input from system control IC
2	RDSCK	I		Serial clock input from system control IC
3-6	RSDST7-4	I/O	C	Data input/output to system control IC
7-15	NC			Not used
16	RDSSEL	I		Select input from system control IC
17	TUNSEL	I		FM/AM tuner unit select input
18,19	NC			Not used
20	CNVSS			GND
21	RDSRST	I		Reset input from system control IC
22	XIN	I		Crystal oscillating element connection pin
23	XOUT	O		Crystal oscillating element connection pin
24	NC			Not used
25	VSS			GND
26	SCHK	I		Software check input
27-31	NC			Not used
32	RCK	I		RDS demodulation clock input
33	RDT	I		RDS demodulation data input
34-45	NC			Not used
46	DRST	O	C	Decoder reset output
47	SD	I		SD input
48	SK	I		SK signal input
49	RDCLK	I		RDS LK signal input
50	DK	I		DK signal input
51	ERROR	O	C	Disapprove of error correction output
52	CORR	O	C	Error output
53	RECIVE	O	C	During RDS data reception output
54-56	NC			Not used
57	FZOUT	O	C	Fuzzy control output
58	VCC			5V
59	NC			Not used
60	FZIN	I		Fuzzy level input
61	SL	I		Signal level from tuner
62,63	NC			Not used
64	RDSRDY	O	C	Ready output for system control IC

\*PD0179B



Output Format	Meaning
C	C MOS output

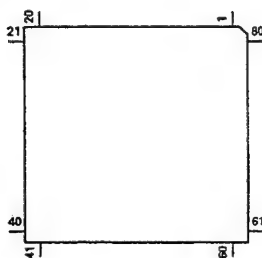
**● Pin Functions (PD4495C)**

Pin No.	Pin Name	I/O	Output Format	Function and Operation
1	FAD	I		A/D converter input from FADER volume
2	MAIN	I		A/D converter input from MAIN volume
	VOL-	I		Volume down input from encoder
3	VOL+	I		Volume up input from encoder
4	AVSS			GND
5	VOUT	O	C	Volume output
6	PCE	O	C	Chip enable output for PLL IC
7	AVREF1	I		A/D converter reference voltage
8	PDI	I		Data input from PLL IC
9	PDO	O	C	Data output for PLL IC
10	PCK	O	C	Serial clock output for PLL IC
11	EDI	I		Data input from EP ROM
12	EXDT	O	C	Data output for external IC
13	EXCK	O	C	Clock output for external IC
14	LCE0	O	C	Chip enable output pin for LCD driver 0
15	LCE1	O	C	Chip enable output pin for LCD driver 1
16	LIINH	O	C	Inhibit output for LCD driver
17,18	NC			Not used
19	ECE	O	C	Chip enable output for EP-ROM
20-25	KST0-5	O	C	Key strobe output
26	NC			Not used
27-30	KD0-KD3	I		Key return input
31	MSIN	I		Cassette mechanism MS sense input
32	F/R	O	C	Cassette mechanism head forward/reverse select output
33	VSS			GND
34	PLAY	O	C	Music search gain select output
35	MTL	I		Cassette mechanism tape select input
36	LOAD	O	C	Loading motor LOAD control
37	POS	I		Cassette mechanism position sense input
38	RES	I		Cassette mechanism reverse end sense input
39	NES	I		Cassette mechanism forward end sense input
40	SC2	O	C	Cassette mechanism sub motor control output
41	SC1	O	C	Cassette mechanism sub motor control output
42	CM	O	C	Cassette mechanism capstan motor control output
43	STBY	O	C	Cassette mechanism driver stand-by output
44	TAPPWR	O	C	Tape +B ON/OFF output
45	PEE	O	C	Beep tone output
46	NC			Not used
47	VST	O	C	Strobe pulse output for electronic volume
48	VCK	O	C	Clock output for electronic volume
49	VDT	O	C	Data output for electronic volume
50	SYSMUT	O	C	System mute output
51	SYSPW	O	C	System power supply control output
52	TUNMUT	O	C	Tuner mute output
53	SWVDD	O	C	Key board unit power supply control output
54	NC			Not used
55	IPPWR	O	C	Power supply control output for IP BUS interface IC
56	IPDO	O	C	Data output for IP BUS interface IC
57	IPDI	I		Data input from IP BUS interface IC
58,59	NC			Not used
60	RESET	I		Reset input
61	SD	I		Station detector signal input
62	ASEN	I		ACC power sense input
63	ISEN	I		Illumination power supply sense input
64	BSEN	I		Back up power sense input
65	EXOE	O	C	Enable output for external IC

# KEX-P8256ZT,P8256ZT-91,P8156ZT,P8156ZT-9

Pin No.	Pin Name	I/O	Output Format	Function and Operation
66	EXLD	O	C	Load output for external IC
67	EJECT	I		Eject key input pin
68	VDD			Power supply
69,70	X2,X1			Crystal oscillating element connection pin
71	IC			Not used
72	XT2			Not used
73	TLMT	I		Telephone mute input
74	AVDD			Power supply
75	AVREF0	I		A/D converter reference voltage
76	SL	I		Signal level input from tuner
77	BASS	I		A/D converter input from BASS volume
78	MID	I		A/D converter input from MID volume
79	TRE	I		A/D converter input from TREBLE volume
80	BAL	I		A/D converter input from BALANCE volume

\*PD4495C

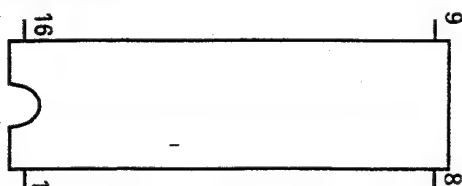


Output Format	Meaning
C	C MOS output

## ● Pin Functions (MB88306PF)

Pin No.	Pin Name	I/O	Output Format	Function and Operation
1	SO	O	C	Serial data output
2	LOAD	I		Loading motor LOAD control input
3	LCDBL	O	C	LCD back light ON/OFF select output
4	ILM	O	C	Illumination ON/OFF select output
5	NR	O	C	Dolby NR ON/OFF select output
6	B/C	O	C	Dolby NR B/C select input
7	EXCK	I		External clock input
8	VSS			GND
9	EXCE	I		Chip enable input
10	FM/AM	O	C	FM/AM power select output
11	ANTB	O	C	Auto antenna +B control output
12	ANT0	O	C	Auto antenna control output 0
13	ANT1	O	C	Auto antenna control output 1
14	EXDT	I		Data input
15	RST	I		Reset signal input
16	VDD			Power supply

\*MB88306PF



Output Format	Meaning
C	C MOS output

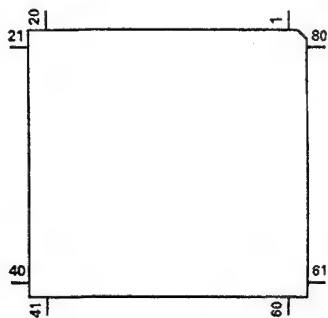
● Pin Functions (PD4496B)

Pin No.	Pin Name	I/O	Output Format	Function and Operation
1	FAD	I		A/D converter input from FADER volume
2	MAIN	I		A/D converter input from MAIN volume
3	FREQ	I		PS(Program Service Name) display select input
4	AVSS			GND
5	VOUT	O	C	Volume output
6	PCE	O	C	Chip enable output for PLL IC
7	AVREF1	I		A/D converter reference voltage
8	PDI	I		Data input from PLL IC
9	PDO	O	C	Data output for PLL IC
10	PCK	O	C	Serial clock output for PLL IC
11	EDI	I		Data input from EP ROM
12	EXDT	O	C	Data output for external IC
13	EXCK	O	C	Clock output for external IC
14	LCE0	O	C	Chip enable output pin for LCD driver 0
15	LCE1	O	C	Chip enable output pin for LCD driver 1
16	LINH	O	C	Inhibit output for LCD driver
17	RDT	I/O	C	Data input/output to RDS control IC
18	RCK	I/O	C	Clock input/output to RDS control IC
19	ECE	O	C	Chip enable output for EP-ROM
20-25	KST0-5	O	C	Key strobe output
26	NC			Not used
27-30	KD0-KD3	I		Key return input
31	MSIN	I		Cassette mechanism MS sense input
32	F/R	O	C	Cassette mechanism head forward/reverse select output
33	VSS			GND
34	PLAY	O	C	Music search gain select output
35	MTL	I		Cassette mechanism tape select input
36	LOAD	O	C	Loading motor LOAD control
37	POS	I		Cassette mechanism position sense input
38	RES	I		Cassette mechanism reverse end sense input
39	NES	I		Cassette mechanism forward end sense input
40	SC2	O	C	Cassette mechanism sub motor control output
41	SC1	O	C	Cassette mechanism sub motor control output
42	CM	O	C	Cassette mechanism capstan motor control output
43	STBY	O	C	Cassette mechanism driver stand-by output
44	TAPPWR	O	C	Tape +B ON/OFF output
45	PEE	O	C	Beep tone output
46	NC			Not used
47	VST	O	C	Strobe pulse output for electronic volume
48	VCK	O	C	Clock output for electronic volume
49	VDT	O	C	Data output for electronic volume
50	SYSMUT	O	C	System mute output
51	SYSPW	O	C	System power supply control output
52	TUNMUT	O	C	Tuner mute output
53	SWVDD	O	C	Key board unit power supply control output
54	RDSN	O	C	Enable output for RDS IC
55	IPPWR	O	C	Power supply control output for IP BUS interface IC
56	IPDO	O	C	Data output for IP BUS interface IC
57	IPDI	I		Data input from IP BUS interface IC
58	RDSRST	O	C	Reset output for RDS IC
59	RDSSEL	O	C	Select output for RDS IC
60	RESET	I		Reset input
61	SD	I		Station detector signal input
62	ASEN	I		ACC power sense input
63	ISEN	I		Illumination power supply sense input
64	BSEN	I		Back up power sense input
65	EXOE	O	C	Enable output for external IC

# KEX-P8256ZT,P8256ZT-91,P8156ZT,P8156ZT-9

Pin No.	Pin Name	I/O	Output Format	Function and Operation
66	EXLD	O	C	Load output for external IC
67	EJECT	I		Eject key input pin
68	VDD			Power supply
69,70	X2,X1			Crystal oscillating element connection pin
71	IC			Not used
72	XT2			Not used
73	RDSRDY	I		Ready input from RDS IC
74	AVDD			Power supply
75	AVREF0	I		A/D converter reference voltage
76	SL	I		Signal level input from tuner
77	BASS	I		A/D converter input from BASS volume
78	MID	I		A/D converter input from MID volume
79	TRE	I		A/D converter input from TREBLE volume
80	BAL	I		A/D converter input from BALANCE volume

\*PD4496B



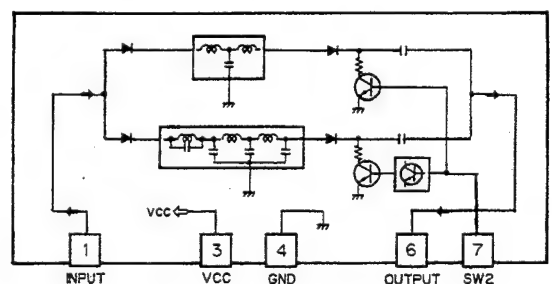
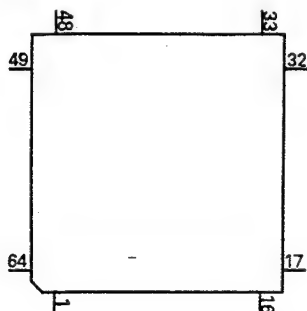
Output Format	Meaning
C	C MOS output

## ● Pin Functions (LC75821W)

Pin No.	Pin Name	I/O	Function and Operation
1-23	SEG1-23	O	LCD segment output
24	NC		Not used
25-54	SEG24-53	O	LCD segment output
55	OSCIN	I	Oscillating element connection pin
56	SWD5V		LCD bias voltage setup input
57	LINH	I	Inhibit input
58	SWD5V		LCD bias voltage setup input
59	VSS		GND
60	LCE	I	Chip enable input
61	EXCK	I	Clock input
62	DATA	I	Data input
63,64	COM1,2	O	LCD common output

\*LC75821W

CWV1041





# **<EX-P8256ZT,P8256ZT-91,P8156ZT,P8156ZT-91**

## ● FM Front End (CWB1070) (KEX-P8256ZT/EW,AU,ES,KEX-P8156ZT/EW,ES)

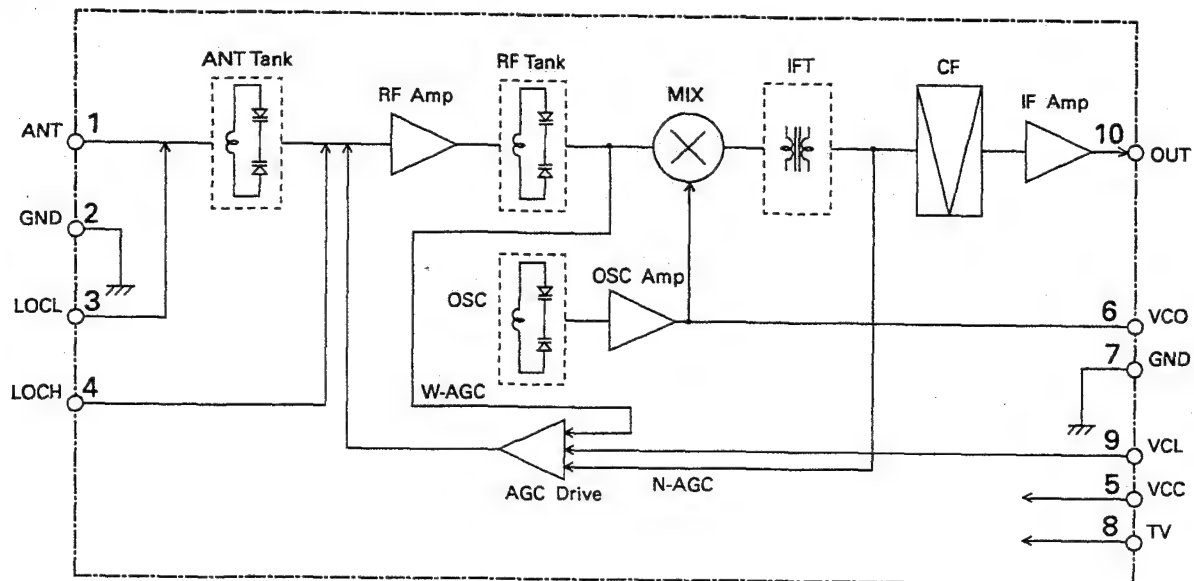


Fig.32

## ● FM Front End (CWB1059) (KEX-P8156ZT/UC)

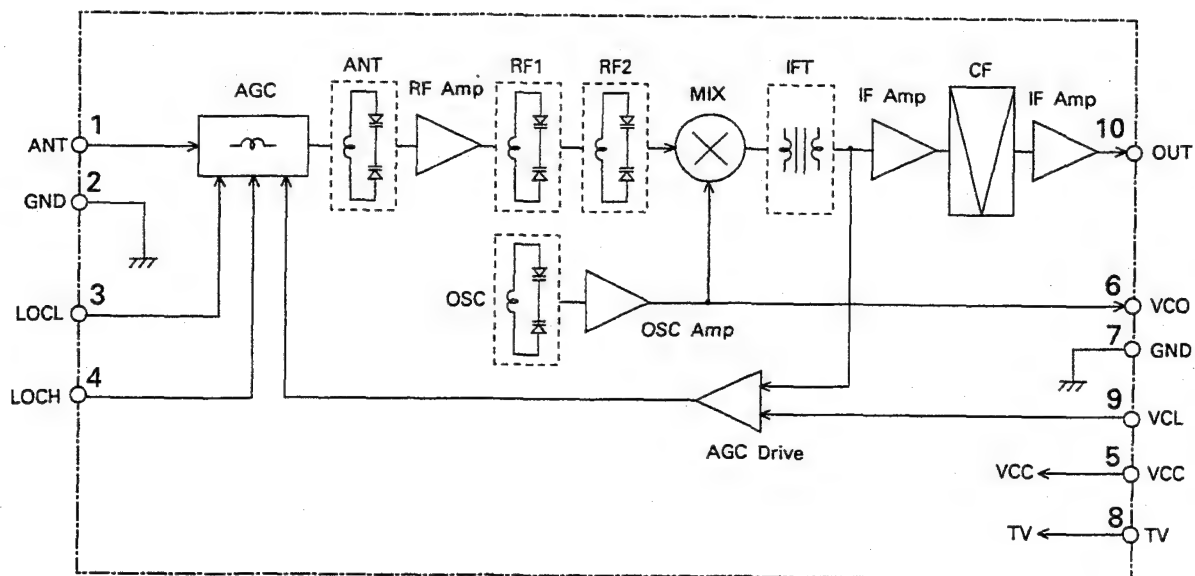


Fig.33



## 9. EXPLODED VIEW PARTS LIST

### NOTE:

● Parts marked by “\*” are generally unavailable because they are not in our Master Spare Parts List.

● Chassis (KEX-P8256ZT/EW)(Exploded View:Page 2-5)

Mark No.	Description	Part No.	Mark No.	Description	Part No.
1	Screw	BMZ26P050FMC	21	Holder	CNC4983
2	Screw	BMZ30P060FMC	22	.....	
3	Case	CNB1759	23	AM(MW/SW) Unit	CWA1079
4	Spacer	CNM3909	24	AM Noise Canceller Unit	CWA1085
5	Main Unit	CWM3550	25	FM Unit	CWE1343
6	Chassis Unit	CXA5778	26	Plug(CN201)	CKS1607
* 7	Grille Assy	CXA6829	27	Plug(CN202)	CKS1615
8	Cassette Mechanism Module	EXK3030	28	Holder	CNC5060
9	Screw	PMS30P060FMC	29	Plug(CN250)	CKS1606
10	Screw	BMZ30P060FMC	* 30	Holder	CNC3881
11	Connector(CN703)	CDE4128	31	Plug(CN2)	CKS1607
12	Connector(CN852)	CKM1124	32	Plug(CN1)	CKS1616
13	Connector(CN951)	CKM1127	33	Holder	CNC4666
14	Connector(CN851)	CKM1206	34	FM Front End(FE101)	CWB1070
15	Connector(CN401)	CKS2628	35	Transistor(Q958,959)	2SB942
16	Connector(CN701,702)	CKS2657	36	IC(IC951)	TA8214K
17	Connector(CN402)	CKS2752	37	.....	
18	Connector(CN652,653)	CKS3008	38	.....	
19	Antenna Jack(CN651)	CKX1041	39	.....	
20	Holder	CNC4981	40	.....	
			41	.....	
			42	.....	

● The KEX-P8156ZT/EW, UC, ES, KEX-P8256ZT/AU, and KEX-P8256ZT/ES Parts Lists enumerate the parts which differ from those enumerated in the KEX-P8256ZT/EW Parts List only. The parts other than those enumerated in the former are identical with those in the latter, to which you are requested to refer, accordingly.

Mark No.	Description	P8256ZT/EW	P8156ZT/EW	P8156ZT/UC	P8256ZT/AU	P8256ZT/ES	P8156ZT/ES
		Part No.	Part No.	Part No.	Part No.	Part No.	Part No.
	5 Main Unit	CWM3550	CWM3549	CWM3547	CWM3553	CWM3554	CWM3552
* 7	Grille Assy	CXA6829	CXA6826	CXA6825	CXA6828	CXA6830	CXA6827
8	Cassette Mechanism Module	EXK3030	EXK3030	EXK3040	EXK3030	EXK3030	EXK3040
19	Antenna Jack(CN651)	CKX1041	CKX1041	CXK1024	CXK1024	CKX1041	CKX1041
23	AM(MW/SW) Unit	CWA1079	CWA1079	CWA1078	CWA1076	CWA1075	CWA1077
24	AM Noise Canceller Unit	CWA1085	CWA1085	CWA1085	.....	CWA1085	CWA1085
25	FM Unit	CWE1343	CWE1343	CWE1342	CWE1345	CWE1345	CWE1345
29	Plug(CN250)	CKS1606	CKS1606	CKS1606	.....	CKS1606	CKS1606
* 30	Holder	CNC3881	CNC3881	CNC3881	.....	CNC3881	CNC3881
34	FM Front End(FE101)	CWB1070	CWB1070	CWB1059	CWB1070	CWB1070	CWB1070
37	AM Stereo Unit	.....	.....	.....	CWA1066	.....	.....
38	Connector(A)	.....	.....	.....	CKS2630	.....	.....
39	Holder	.....	.....	.....	CNC2276	.....	.....
42	Insulator	.....	.....	CNM3975	.....	.....	.....

**● Grille Assy (KEX-P8256ZT/EW)(Exploded View:Page 2-3)**

Mark No.	Description	Part No.	Mark No.	Description	Part No.
1	Screw	BPZ26P100FMC	26	Grille Unit	CXA7697
2	Button(EJECT)	CAC3708	27	Door	CAT1630
3	Button(1 2)	CAC3710	28	Spring	CBH1371
4	Button(3 4)	CAC3711	29	Connector(CN904)	CKS2276
5	Button(5 6)	CAC3712	30	Connector(CN905)	CKS2626
6	Button(TAPE)	CAC3717	31	Connector(CN901,902)	CKS2647
7	Button(TI)	CAC3800	32	Holder	CNC4980
8	Button(NF)	CAC3801	33	Rubber	CNV3649
9	Button(UKW)	CAC3804	34	Rubber	CNV3650
10	Button(LW/MW)	CAC3805	35	Rubber	CNV3651
11	Button(CD)	CAC3808	36	LCD	CAW1294
12	Button(P.SCAN SCAN)	CAC3867	37	Plug(CN903)	CKS1042
13	Button	CAC4052	38	Holder	CNC5182
14	Nut	CBN1008	39	P.C.Board	CNP3493
15	Holder	CNC4979	40	Clamper	CNV3652
16	Lens	CNV3644	41	Holder	CNV3653
17	Holder	CNV3645	42	Volume(VR901-905)	CCS1224
18	Holder	CNV3646	43	Volume(S901)	CCS1106
19	Holder	CNV3647	44	....	
20	Holder	CNV3648	45	....	
21	Lens	CNV3657	46	Holder	CNV3647
22	Key Board Unit	CWM3599	47	Holder	CNV3647
23	LCD Unit	CWM3736			
24	Knob Assy	CXA6411			
25	Knob Assy	CXA6412			

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Mark No.	Description	KEX-P8256ZT/EW Part No.	KEX-P8256ZT/AU Part No.	KEX-P8256ZT/ES Part No.
7	Button(TI)	CAC3800	CAC4129(AM MONO)	....
8	Button(NF)	CAC3801	....	....
9	Button(UKW)	CAC3804	CAC3718(FM1/2)	CAC3718(FM1/2)
10	Button(LW/MW)	CAC3805	CAC3714(AM)	CAC3714(AM)
22	Key Board Unit	CWM3599	CWM3555	CWM3556
24	Knob Assy	CXA6411	CXA6410	CXA6410
25	Knob Assy	CXA6412	....	....
26	Grille Unit	CXA7697	CXA7698	CXA7699
27	Door	CAT1630	CAT1631	CAT1629
43	Volume(S901)	CCS1106	....	....
44	Pulse Switch(S926)	....	CSD1019	CSD1019
45	Knob Assy	....	CXA6409	CXA6409
46	Holder	CNV3647	CNV3647	....
47	Holder	CNV3647	....	....

# KEX-P8256ZT,P8256ZT-91,P8156ZT,P8156ZT-9

## ● Grille Assy (KEX-P8156ZT/EW)(Exploded View:Page 2-4)

Mark No.	Description	Part No.	Mark No.	Description	Part No.
1	Screw	BPZ26P080FMC	26	Grille Unit	CXA7693
2	Button(EJECT)	CAC3708	27	Door	CAT1627
3	Button(1 2)	CAC3710	28	Spring	CBH1371
4	Button(3 4)	CAC3711	29	Connector(CN904)	CKS2276
5	Button(5 6)	CAC3712	30	Connector(CN905)	CKS2626
6	Button(PSCAN SCAN)	CAC3713	31	Connector(CN901,902)	CKS2647
7	Button(TAPE)	CAC3717	32	Holder	CNC4980
8	Button(TI)	CAC3800	33	Rubber	CNV3649
9	Button(NF)	CAC3801	34	Rubber	CNV3650
10	Button(UKW)	CAC3804	35	Rubber	CNV3651
11	Button(LW/MW)	CAC3805	36	LCD	CAW1293
12	Button(CD)	CAC3808	37	Plug(CN903)	CKS1042
13	Button	CAC4052	38	Holder	CNC5182
14	Nut	CBN1008	39	P.C.Board	CNP3493
15	Holder	CNC4979	40	Clamper	CNV3652
16	Lens	CNV3644	41	Holder	CNV3653
17	Holder	CNV3645	42	Volume(VR901-905)	CCS1224
18	Holder	CNV3646	43	Volume(S901)	CCS1106
19	Holder	CNV3647	44	.....	
20	Holder	CNV3648	45	.....	
21	Lens	CNV3657	46	Holder	CNV3647
22	Key Board Unit	CWM3600			
23	LCD Unit	CWM3714			
24	Knob Assy	CXA6411			
25	Knob Assy	CXA6412			

- The KEX-P8156ZT/UC, and KEX-P8156ZT/ES Parts Lists enumerate the parts which differ from those enumerated in the KEX-P8156ZT/EW Parts List only. The parts other than those enumerated in the former are identical with those in the latter, to which you are requested to refer, accordingly.

Mark No.	Description	KEX-P8156ZT/EW Part No.	KEX-P8156ZT/UC Part No.	KEX-P8156ZT/ES Part No.
8	Button(TI)	CAC3800	.....	.....
9	Button(NF)	CAC3801	.....	.....
10	Button(UKW)	CAC3804	CAC3718(FM1/2)	CAC3872(FM)
11	Button(LW/MW)	CAC3805	CAC3714(AM)	CAC3806(AM/SW)
22	Key Board Unit	CWM3600	CWM3557	CWM3558
24	Knob Assy	CXA6411	CXA6408	CXA6410
25	Knob Assy	CXA6412	.....	.....
26	Grille Unit	CXA7693	CXA7692	CXA7694
27	Door	CAT1627	CAT1326	CAT1628
43	Volume(S901)	CCS1106	CCS1106	.....
44	Pulse Switch(S926)	.....	.....	CSD1019
45	Knob Assy	.....	CXA6409	CXA6409
46	Holder	CNV3647	.....	.....

**● Cassette Mechanism Module (KEX-P8256ZT/EW)(Exploded View:Page 2-7)**

Mark No.	Description	Part No.	Mark No.	Description	Part No.
1	.....		46	Gear	ENV1423
2	Screw	BSZ20P040FMC	47	Collar	ENV1349
3	Screw(M2x4)	CBA1015	48	Gear	ENV1350
4	Washer	CBF1037	49	Gear	ENV1351
5	Washer	CBF1038	50	Gear	ENV1354
6	Washer	CBG1003	51	Gear	ENV1355
7	.....		52	Gear	ENV1357
8	Deck Unit	CWM3709	53	Gear	ENV1358
9	Spring	EBH1458	54	Gear	ENV1359
10	Spring	EBH1434	55	Clamper	ENV1360
11	Spring	EBH1435	56	Clamper	ENV1361
12	Spring	EBH1437	57	Arm	ENV1362
13	Spring	EBH1464	58	Gear	ENV1363
14	Spring	EBH1439	59	Flywheel	ENV1410
15	Spring	EBH1440	60	Head Assy	EXA1364
16	Spring	EBH1441	61	Arm Unit	EXA1276
17	Spring	EBH1442	62	Arm Unit	EXA1277
18	Spring	EBH1443	63	Motor Unit	EXA1335
19	Spring	EBH1446	64	Motor Unit	EXA1279
20	.....		65	Head Base Unit	EXA1340
21	Spring	EBL1016	66	Gear Unit	EXA1281
22	Connector(CN252)	CKS2127	67	Guide Unit	EXA1356
23	Photo-Interrupter	EGN1002	68	Chassis Unit	EXA1339
24	Roller	ELA1281	69	Pinch Roller Unit	EXA1284
25	Shaft	ELA1282	70	Pinch Roller Unit	EXA1285
26	Roller	ELA1283	71	Reel Unit	EXA1306
27	Cover	ENC1307	72	Arm Unit	EXA1338
28	Connector(CN251)	CKS1711	73	Sub Chassis Unit	EXA1312
29	Connector(CN253)	CKS2129	74	Arm Unit	EXA1289
30	Arm	ENC1310	75	Spare Unit	EXA1367
31	Arm	ENC1311	76	Screw	HBA-147
32	Lever	ENC1312	77	Washer	HBF-179
33	Holder	ENC1365	78	Screw	JGZ20P025FNI
34	Cover	ENC1372	79	Screw	CBA1031
35	Lever	ENC1315	80	P.C.Board Unit	EWM1003
36	Lever	ENC1353	81	.....	
37	Bracket	ENC1317	82	Washer	YE15FUC
38	Arm	ENC1335	83	Washer	YE20FUC
39	P.C.Board	ENP1109	84	Washer	YE25FUC
40	P.C.Board	ENP1120	85	Frame Unit	EXA1290
41	P.C.Board	ENP1119	86	Lever	ENC1308
42	Roller	ENR1023	87	Lever	ENC1309
43	Belt	ENT1027	88	Screw	EBA1033
44	Gear	ENV1422	89	Spring	ELB1020
45	Gear	ENV1347	90	Screw	JFZ17P025FNI
			91	Cover	ENC1351

## KEX-P8256ZT,P8256ZT-91,P8156ZT,P8156ZT-9

- The KEX-P8156ZT/EW, UC, ES, KEX-P8256ZT/AU, and KEX-P8256ZT/ES Parts Lists enumerate the parts which differ from those enumerated in the KEX-P8256ZT/EW Parts List only. The parts other than those enumerated in the former are identical with those in the latter, to which you are requested to refer, accordingly.

Mark No.	Description	P8256ZT/EW	P8156ZT/EW	P8156ZT/UC	P8256ZT/AU	P8256ZT/ES	P8156ZT/ES
		Part No.	Part No.	Part No.	Part No.	Part No.	Part No.
8	Deck Unit	CWM3709	CWM3709	CWM3710	CWM3709	CWM3709	CWM3710

## 10. ELECTRICAL PARTS LIST

## NOTE:

- Parts whose parts numbers are omitted are subject to being not supplied.
- The part numbers shown below indicate chip components.

Chip Resistor

RS1/OSOOOJ,RS1/OOSOOOJ

Chip Capacitor (except for CQS.....)

CKS....., CCS....., CSZS.....

====Circuit Symbol & No. Part Name=====	Part No.	====Circuit Symbol & No. Part Name=====	Part No.
Unit Number : CWA1079 Unit Name : AM Unit		CAPACITORS	
MISCELLANEOUS		C 201 216 225 234	CKSQYB103K25
IC 201	PAF001A	C 203	CSZA3R3M16
Q 201	2SK435	C 204 239	CKSQYB223K25
Q 202	2SC4116	C 205	CCSRCH120J50
Q 204	2SC2412K	C 206	CCSQCH560J50
Q 206	HN1C01FU		
		C 207	CCSQCH680J50
Q 231	DTC124EU	C 208	CKSQYB223K25
Q 232	DTC124EU	C 211	CEAR47M50LL
D 201 204	1SS226	C 212	CKSQYB332K50
D 205	SVC203CP	C 213	CCSQCH330J50
L 201	Inductor CTF1287		
		C 215 240 245	CKSQYB473K16
L 202	Coil CTB1102	C 218	CKSQYB473K16
L 203	Inductor LAU390K	C 220	CCSRCH430J50
L 204	Ferri-inductor LAU680K	C 221	CCSQCH120J50
L 205	Inductor CTF1198	C 224	CEA470M16LL
L 206	Inductor CTF1197		
		C 229	CEA101M10LL
T 203	Coil CTB1040	C 230	CKSQYB682K50
T 204	Coil CTE1079	C 231	CCSRCH100D50
T 205	Coil CTE1100	C 232 241 244	CKSRYB103K25
T 206	Coil CTE1072	C 235	CEA1R5M50LL
CF 201	CTF1262		
		C 236	CEA0R1M50LL
CF 202	Filter CTF1085	C 237	CEA4R7M35LL
X 201	Crystal Resonator 10.26MHz CSS1111	C 238	CEA3R3M50LL
VR 201	Semi-fixed 4.7kΩ(B) CCP1179	C 242	CCSQCH030C50
VR 202	Semi-fixed 15kΩ(B) CCP1182		
RESISTORS		Unit Number : CWA1085 Unit Name : AM Noise Canceller Unit	
		MISCELLANEOUS	
R 200	RD1/4PS103JL	IC 250	HA12429MP
R 201	RS1/16S220J	Q 250	2SC4116
R 202 230 233	RS1/10S102J	Q 251 252 253	2SC4116
R 204	RS1/10S472J	T 250	Coil CTB1078
R 205 209	RS1/10S470J	VR 250	Semi-fixed 10kΩ(B) CCP1154
R 207 237 238 241	RS1/10S103J	RESISTORS	
R 208 220 221 245 250	RS1/10S0R0J	R 250 263	RS1/10S103J
R 211 213	RS1/16S103J	R 251 252	RS1/10S472J
R 215 234	RS1/16S0R0J	R 253	RS1/10S822J
R 218	RS1/10S0R0J	R 254	RS1/10S332J
		R 255 270	RS1/10S223J
R 229	RS1/10S101J		
R 231	RS1/10S823J	R 256	RS1/10S274J
R 235	RS1/16S104J	R 257	RS1/10S224J
R 236 242	RS1/10S103J	R 258 269	RS1/10S473J
R 239	RS1/10S152J	R 259 260	RS1/10S682J
		R 261	RS1/10S223J
R 240	RS1/10S393J		
R 243	RS1/10S152J	R 262	RS1/10S223J
R 244	RS1/10S242J	R 264	RS1/10S183J
R 248	RS1/10S222J	R 265	RS1/10S184J
R 249	RS1/10S225J	R 266	RS1/10S105J
		R 271	RS1/10S103J
		R 272	RS1/10S432J

# KEX-P8256ZT,P8256ZT-91,P8156ZT,P8156ZT-91

====Circuit Symbol & No. Part Name=====	Part No.
<b>CAPACITORS</b>	
C 250 253 266	CKSQYB103K50
C 251	CKSQYB391K50
C 252	CKSQYB102K50
C 255	CEV220M16
C 256	CEV010M50
C 257	CKSQYF683Z25
C 258 259 274	CKSQYB333K25
C 260	CEVR33M50
C 261	CCSQCH430J50
C 262	CKSQYB102K50
C 263	CEV4R7M35
C 264	CEV100M16
C 265	CEV330M10
C 267	CCSQCH181J50
C 268	CCSQCH471J50
C 269	CCSQCH331J50
C 270 271	CKSQYB103K50
C 272	CKSQYB332K50
C 273	CEV101M10
C 275	CKSQYF104Z25
Unit Number : CWE1343	
Unit Name : FM Unit	
<b>MISCELLANEOUS</b>	
IC 51	PA4021A
Q 1 5 51	DTC124EU
Q 3	2SA1586
Q 71 171	2SC4116
Q 123	2SC4116
L 1 51	LAU150K
L 2	LAUR22M
L 71	LAU3R9K
L 101	LCTA102K4532
T 51	CTE1111
T 52	CTE1022
T 71	CTE1043
TH 51	CCX1024
TH 102	CCX1015
CF 52 53	CTF1057
X 151	CSS1055
VR 1	CCP1183
VR 51	CCP1181
VR 101	CCP1186
VR 102	CCP1184
VR 103	CCP1175
FE 101	CWB1070
<b>RESISTORS</b>	
R 4	RS1/10S0R0J
R 5	RS1/10S223J
R 6 10 12	RS1/10S0R0J
R 7	RS1/10S560J
R 23 61	RS1/10S682J
R 24 72 105	RS1/10S123J
R 25	RS1/10S243J
R 54	RS1/10S822J
R 56 173	RS1/10S473J
R 57	RS1/10S472J
R 58	RS1/16S203J
R 59	RS1/16S331J
R 60	RS1/10S153J
R 73	RS1/10S103J
R 74	RS1/10S331J

====Circuit Symbol & No. Part Name=====	Part No.
R 75 104	RS1/10S102J
R 76	RS1/10S151J
R 101	RS1/16S681J
R 102	RS1/16S223J
R 106 172	RS1/10S104J
R 108	RS1/10S333J
R 111	RS1/10S183J
R 121	RS1/10S473J
R 122	RS1/10S104J
R 123	RS1/10S154J
R 127	RS1/10S333J
R 143	RS1/10S393J
R 144	RS1/10S103J
R 146 174	RS1/10S153J
R 151 152	RS1/10S392J
R 153	RS1/10S222J
R 154	RS1/10S124J
R 180	RS1/10S335J
<b>CAPACITORS</b>	
C 1 111	CEA100M16LL
C 2 59 74 129	CKSQYB473K16
C 10 54	CCSQCH101K50
C 21 72 73 80 104 172	CKSQYB103K25
C 51	CKSQYB473K16
C 52 53 61	CKSRYB223K25
C 57	CSZSR33M35
C 58	CCSQCH040C50
C 60	CEA100M10NPLL
C 101	CKSRYB682K50
C 102	CKSQYB682K50
C 103	CKSQYB152K50
C 105	CEA1R5M50LL
C 106	CEA0R1M50LL
C 107	CKSRYB222K50
C 108	CKSQYB222K50
C 110	CKSYB224K16
C 112	CKSYB183K25
C 122	CKSQYB104K16
C 124	CSZS1R5M10
C 128	CKSQYB332K50
C 151 152	CKSQYB153K25
C 153	CKSYB474K16
C 154 155 156	CEA3R3M50LL
C 157	CEA101M10LL
C 171	CKSQYB563K25
C 173	CKSQYB104K16
C 180	CEA2R2M50LL

<b>Main Unit</b>
Consists of
Tuner P.C.Board
Control P.C.Board

Unit Number : CWM3550  
Unit Name : Main Unit

<b>MISCELLANEOUS</b>	
IC 402 404 851	XRA4558F-P
IC 403	SA572D
IC 405	PMJ002A
IC 501	LC72140M
IC 601	PMR001B
IC 602	SC14SU69F
IC 603	PD0179B
IC 701	PD4496B
IC 702	PDH004A
IC 703	S-80740AND4I

# EX-P8256ZT,P8256ZT-91,P8156ZT,P8156ZT-91

====Circuit Symbol & No. Part Name=====	Part No.	====Circuit Symbol & No. Part Name=====	Part No.
IC 704	MB88306PF	R 431 432 663	RS1/10S273J
IC 705	PA0051AM	R 433 434 702 821 822 955 1061 1062 1063	RS1/10S101J
IC 852 853 854 855	UPC4570G	R 435 436	RS1/10S361J
IC 951	TA8214K	R 437	RS1/10S152J
Q 503 509 511 602 651 680 681 682	2SC2712	R 438 439	RS1/10S511J
Q 504 687 689 709 715 952	DTA114EK	R 440 441	RS1/10S181J
Q 505 688	DTC124EK	R 442 796 800 805 809 814	RS1/10S153J
Q 508 512	2SK208	R 501 510 511 736 737 738 739 828 832	RS1/10S473J
Q 510	2SC3098	R 502 503 504 505 519 521 537 606 607 608	RS1/10S102J
Q 683 684 685 686	DTC343TK	R 509 651	RS1/10S0R0J
Q 702 704 706 710 712 716 724 726 966 969	2SB1260	R 512 641 642 710 716 781 786 787 788 789	RS1/10S222J
Q 703 705 707 711 713 717 729 731 733 740	2SA1162	R 518 680 688 689 692 693 995	RS1/10S103J
Q 708	DTC123YK	R 520 523 534 649 695 697 990	RS1/10S102J
Q 714	DTC143EK	R 525	RS1/10S182J
Q 718 730 970	DTC114EK	R 526	RS1/10S821J
Q 719 720 722 723	DTA144EK	R 527	RS1/10S101J
Q 725 727 732 741	DTC144EK	R 528	RS1/10S680J
Q 728	2SB1184F5	R 529	RS1/10S331J
Q 951 962 968	2SA1162	R 530	RS1/10S330J
Q 953 955	2SC3651	R 533	RS1/10S0R0J
Q 954 957	2SC2712	R 536	RS1/10S152J
Q 958 959	2SB942	R 539	RS1/10S102J
Q 960	2SD1767	R 603 953	RS1/10S472J
Q 961	2SC2712	R 604 605 661 682 683	RS1/10S333J
Q 965 967	2SC2712	R 609	RS1/10S681J
Q 972	2SB1243	R 610 612 614 616 618 620 622 626 627 630	RS1/10S102J
Q 973	2SC2712	R 617 619 621 623 624 698 725 726 727 753	RS1/10S473J
Q 974 975 976 977	2SC2712	R 629	RS1/10S105J
D 401 402 403 404 953	MA153-MC	R 631 632 633 634 635 637 639 643 645 658	RS1/10S102J
D 502 503	MA8027H	R 657 837 992 1003	RS1/10S472J
D 601	MA8056H	R 659 660 873 874 889 890	RS1/10S392J
D 652 680 681 712 713 965	MA151WK-MT	R 662	RS1/10S223J
D 704 707 715 716 717 718 719 964	MA151K-MH	R 686 687 690 691 851 852 853 854	RS1/10S561J
D 708 709 714	MA3180M	R 696	RS1/10S683J
D 710 711	ERA15-10	R 699	RS1/10S221J
D 951	MA8056M	R 701 706 707 708 709 711 712 713 730 731	RS1/10S102J
D 952	ERA15-02	R 704	RS1/10S0R0J
D 954	MA3100H	R 714 715 795 799 804 808 813	RS1/10S471J
D 955 957	MA8082M	R 718 728 729 801 810 815 825 826 829 830	RS1/10S103J
D 958	MA8043H	R 720	RS1/10S222J
D 959 960 961	MA8075M	R 721 722 723 724 771 773 774 997 999 1001	RS1/10S104J
D 962	MA3200MH	R 732 734 735 740 741 742 743 744 745 746	RS1/10S102J
D 963	GP30ML-6373	R 747 748 749 750 751 752 759 760 763 764	RS1/10S102J
L 501 Inductor	LCYA150K3225	R 754 755 756 757 758 762 776 777 778 779	RS1/10S473J
L 502 Inductor	LCYA1R0M3225	R 761	RS1/10S681J
L 601 602 670	LCYA101K3225	R 765 766 767 768 769 770 775 782 784 793	RS1/10S102J
L 951 Inductor	LCTA100K4532	R 780 783 785 818 839 847 859 860 861 862	RS1/10S473J
L 952 Choke Coil	CTH1069	R 790 791 835 956 959 978 982	RS1/10S222J
X 501 Crystal Resonator 4.5MHz	CSS1011	R 792	RS1/10S3R3J
X 601 Crystal Resonator 4.332MHz	CSS1056	R 794 798 803 807 812	RS1/10S2R2J
X 701 Ceramic Resonator 6.29MHz	CSS1305	R 797 802 806 811 816 817 838 841 849 981	RS1/10S102J
VR 650 Semi-fixed 2.2kΩ (B)	CCP1177	R 823 824	RS1/10S121J
EF 951	CCG1006	R 827 831	RS1/4S221J
AR 651	DSP-201M	R 833	RS1/10S2R7J
	CWA1079	R 834 845 846 875 876 877 878 891 892 893	RS1/10S103J
	AM Unit		
	AM Noise Canceller Unit	R 840 848	RS1/8S222J
	FM Unit	R 842	RS1/8S102J
		R 855 856 857 858	RS1/10S241J
		R 863 864 865 866 989 993 996 998 1000 1002	RS1/10S473J
		R 867 868 869 870 883 884 885 886	RS1/10S332J
		R 871 872 887 888	RS1/10S242J
		R 879 881 882 895 896 897 898	RS1/10S510J
		R 880	RS1/10S103J
		R 894 951 952 962 966 967 969 970 971 973	RS1/10S6R8J
		R 954	
		R 961	RS1/2S221J
		R 963 964	RS1/2S1R0J
		R 968	RS1/10S123J
		R 972 975	RS1/4S821J
		R 974 991 1004	RS1/8S472J

## RESISTORS

R 403 404	RS1/10S512J
R 405 406	RS1/10S224J
R 409 410	RS1/10S562J
R 411 412 613 615 625 628 636 638 640 717	RS1/10S104J
R 413 414 611 960 965	RS1/10S223J
R 415 416	RS1/10S332J
R 423 424 443	RS1/10S123J
R 425 426 508 513 522 535 681 684 685 719	RS1/10S222J
R 427 428	RS1/10S752J
R 429 430	RS1/10S183J



**KEX-P8256ZT,P8256ZT-91,P8156ZT,P8156ZT-9**

====Circuit Symbol & No. Part Name=====	Part No.	====Circuit Symbol & No. Part Name=====	Part No.
R 979	RS1/10S4R7J	C 875 876 877 878 889 890 891 892	CKSQYB223K25
R 980 983 1054 1055 1056 1057	RS1/10S103J	C 886 887 888 953 992	CEA100M16LL
R 987 1058 1059 1060	RS1/10S102J	C 951 957 965 980 987 995 996 997	CKSQYB103K25
R 994	RS1/2S681J	C 955	0.1F/5.5V
R 1005 1007	RS1/8S222J	C 956 971 978 983	CEA101M10LL
R 1006	RS1/8S103J	C 961 962	CEA010M50LL
R 1008	RS1/10S224J	C 964	CEA470M10LL
R 1051 1052	RS1/10S473J	C 977	CKSQYB103K25
R 1071 1072 1073 1074 1075 1076 1077 1078	RS1/10S470J	C 982 984	CEA470M16LL
		C 990	2200 $\mu$ F/16V
CAPACITORS		C 998	470 $\mu$ F/16V
C 401 402 409 410 415 416 419 420 423 427	CEA100M16LL	C 999 1000	CCH1183
C 403 404 450 451 505 506	CCSQCH101J50		CKSQYB223K50
C 405 406 413 701 960	CEA220M16LL		
C 407 408 454 970	CKSQYB104K25		
C 411 412	CEA4R7M35LL		
C 414 424 857 858 859 860	CEA2R2M50LL		
C 417 418 444 445	CEA2R2M50NPLL		
C 421 422	CCSQCH470J50		
C 425 426	CKSQYB272K50		
C 428 429 430 452 453 871 872 873 874 885	CEA100M16LL		
C 431 432	CEA3R3M50LL		
C 433 434	CKSQYB152K50		
C 435 504 615 618 619 621 626 702 703 704	CKSQYB103K25		
C 436 437	CKSQYB682K50		
C 438 439	CKSQYB222K50		
C 440 441	CKSYB124K16		
C 442 443	CKSQYB682K50		
C 448 449	CKSQYB823K25		
C 455 614 623 705 706 707 708 709 710 711	CKSQYB102K50		
C 501 507	CCSQCH120J50		
C 502 696 851 852 853 854	CKSQYB102K50		
C 503 612 622	CKSQYB223K25		
C 508 519 611 620	CEAS100M16		
C 509 515 518 520 522 523 603 625 668 669	CKSQYB103K25		
C 510 602	CEA1R5M50LL		
C 513	CGCYX473K25		
C 514	CFTNA474J50		
C 516	CCSQCH561J50		
C 517	CCSQCH101J50		
C 521	CCH1165		
C 524	CKCYB472K50		
C 601 695	CKSQYB472K50		
C 604	CEASR33M50		
C 605 671 673 952 979 981 989	CKSQYB473K25		
C 606	CSZA100K10		
C 607	CKSQYB472K50		
C 608 609	CEAS010M50		
C 610 682 683 684 685	CEAS3R3M50		
C 613	CKSQYB103K25		
C 616 617	CCSQCH150J50		
C 624 718 719 720 721 954 958 959 991 994	CKSQYB473K25		
C 663	CEASR22M50		
C 664 665	CKSQYB393K25		
C 666	CKSQYB273K25		
C 670 674 675 966 967 968 969 974 975 976	CKSQYB103K25		
C 672	CEAS470M16		
C 677 678	CKSQYB102K50		
C 680	CKSQYB153K25		
C 681	CKSQYB682K50		
C 687	CEAS101M16		
C 712 713 716 717 722	CKSQYB102K50		
C 714 715	CCSQCH471J50		
C 861 862 863 864	CCSQCH100D50		
C 865 866 879 880	CEA100M10NPLL		
C 867 868 869 870 881 882 883 884	CCSQCH181J50		

# **<KEX-P8256ZT,P8256ZT-91,P8156ZT,P8156ZT-91**

====Circuit Symbol & No. Part Name=====	Part No.	====Circuit Symbol & No. Part Name=====	Part No.
<b>CAPACITORS</b>		<b>RESISTORS</b>	
C 251 252 253 254	CKSQYB471K50	R 901 902	RS1/10S473J
C 255 256 353 356	CKSQYB103K50	R 903 904 905 906 907 908 909 910	RS1/10S102J
C 257 258	CEVNP010M50	<b>CAPACITORS</b>	
C 271	CEV010M50	C 901 902	CCSQCH681J50
C 272	CKSQYB104K25	C 903 904	CKSQYB103K25
C 301 302	CEVNP47M50	C 905 906	CKSQYB473K25
C 309 310	CKSQYB104K16	C 907 908	CKSQYB102K50
C 351	CKSYB224K25	Unit Number : EWM1003	
C 352	CKSQYB392K50	Unit Name : P.C.Board Unit	
C 354	CKSQYB473K50	S 1 2	Switch (70 $\mu$ S,Load)
C 355	CKSYB104K50	EGN 1 2	Photo-Interrupter (NJL5181KA-F10)
C 401	CKSQYB182K50	R 1	ESN1013
C 402	CKSQYB822K50	R 2	GGC1066
C 403	CKSQYB333K50	Miscellaneous Parts List	
C 404	CKSQYB471K50	EGN 3	Photo-Interrupter
Unit Number : CWM3736		M 1	Motor Unit (Main)
Unit Name : LCD Unit		M 2	Motor Unit (Sub)
<b>MISCELLANEOUS</b>		HD 1	Head Assy
IC 901 902	LC75821W	EGN1002	
IL 901 902	CEL1342	EXA1335	
Lamp 8V 100mA	CAW1294	EXA1279	
LCD		EXA1364	

- The KEX-P8156ZT/EW, UC, ES, KEX-P8256ZT/AU, and KEX-P8256ZT/ES Parts Lists enumerate the parts which differ from those enumerated in the KEX-P8256ZT/EW Parts List only. The parts other than those enumerated in the former are identical with those in the latter, to which you are requested to refer, accordingly. The KEX-P8256ZT/EW Parts List is given on page 1-32.

## ● Main Unit

Circuit Symbol & No.	KEX-P8256ZT/EW	KEX-P8156ZT/EW	KEX-P8156ZT/UC	KEX-P8256ZT/AU	KEX-P8256ZT/ES	KEX-P8156ZT/ES
	Part No.	Part No.	Part No.	Part No.	Part No.	Part No.
IC601	PMR001B	PMR001B	.....	.....	.....	.....
IC602	SC14SU69F	SC14SU69F	.....	.....	.....	.....
IC603	PD0179B	PD0179B	.....	.....	.....	.....
IC651	.....	.....	KHA197	KHA197	.....	.....
IC652	.....	.....	PA5014A	PA5014A	.....	.....
IC701	PD4496B	PD4496B	PD4495C	PD4495C	PD4495C	PD4495C
IC702	PDH004A	PDH004A	.....	PDH004A	.....	.....
Q501	.....	.....	.....	.....	.....	DTA114EK
Q503	2SC2712	2SC2712	.....	2SC2712	2SC2712	2SC2712
Q504	DTA114EK	DTA114EK	.....	.....	.....	DTA114EK
Q505	DTC124EK	DTC124EK	.....	.....	.....	.....
Q506	.....	.....	.....	2SC3295	.....	2SC3295
Q507	.....	.....	.....	2SC2712	.....	2SC2712
Q510	2SC3098	2SC3098	.....	2SC3098	2SC3098	2SC3098
Q511	2SC2712	2SC2712	2SC2712	.....	2SC2712	.....
Q512	2SK208	2SK208	2SK208	.....	2SK208	.....
Q513,514	.....	.....	2SA1162	.....	.....	.....
Q602,651	2SC2712	2SC2712	.....	.....	.....	.....
Q680	2SC2712	2SC2712	2SC2712	.....	2SC2712	2SC2712
Q721	.....	.....	DTA144EK	.....	.....	DTA144EK
D501	.....	.....	.....	MA153-MC	.....	MA153-MC
D503	MA8027H	MA8027H	MA8027H	.....	MA8027H	.....
D601	MA8056H	MA8056H	.....	.....	.....	.....
D650	.....	.....	MA151K-MH	MA151K-MH	.....	.....
D680,681	MA151WK-MT	MA151WK-MT	MA151WK-MT	MA151K-MH	MA151WK-MT	MA151WK-MT
D703	.....	.....	.....	.....	.....	.....
D704	MA151K-MH	.....	.....	MA151K-MH	MA151K-MH	.....
D705	.....	.....	.....	MA151K-MH	.....	MA151K-MH
D706	.....	.....	.....	.....	MA151K-MH	.....
D720	.....	.....	.....	MA151WA-MN	MA151WA-MN	MA151WA-MN

# KEX-P8256ZT,P8256ZT-91,P8156ZT,P8156ZT-91

Circuit Symbol & No.	KEX-P8256ZT/EW	KEX-P8156ZT/EW	KEX-P8156ZT/UC	KEX-P8256ZT/AU	KEX-P8256ZT/ES	KEX-P8156ZT/ES
	Part No.	Part No.	Part No.	Part No.	Part No.	Part No.
AR652	*****	*****	DSP-201M	DSP-201M	*****	*****
VR650	CCP1177	CCP1177	*****	*****	*****	*****
L502	LCYA1R0M3225	LCYA1R0M3225	*****	LCYA1R0M3225	LCYA1R0M3225	LCYA1R0M3225
L601	LCYA101K3225	LCYA101K3225	*****	*****	*****	*****
L602	LCYA101K3225	LCYA101K3225	*****	*****	*****	*****
L651	*****	*****	LCYA1R0M3225	LCYA1R0M3225	*****	*****
X601	CCS1056	CCS1056	*****	*****	*****	*****
MW/SW Unit	*****	*****	*****	*****	*****	CWA1077
AM Unit	CWA1079	CWA1079	CWA1078	CWA1076	CWA1075	*****
AM Noise Canceller Unit	CWA1085	CWA1085	CWA1085	*****	CWA1085	CWA1085
AM Stereo Unit	*****	*****	*****	CWA1066	*****	*****
FM Unit	CWE1343	CWE1343	CWE1342	CWE1345	CWE1345	CWE1345
R425,426	RS1/10S222J	RS1/10S222J	RS1/10S332J	RS1/10S272J	RS1/10S332J	RS1/10S132J
R506	*****	*****	*****	*****	*****	RS1/10S473J
R508	RS1/10S222J	RS1/10S222J	*****	RS1/10S222J	RS1/10S222J	RS1/10S222J
R509	RS1/10S0R0J	RS1/10S0R0J	*****	*****	*****	*****
R510	RS1/10S473J	RS1/10S473J	*****	*****	*****	RS1/10S473J
R512	RS1/10S222J	RS1/10S222J	RS1/10S472J	RS1/10S102J	RS1/10S472J	RS1/10S472J
R513	RS1/10S222J	RS1/10S222J	RS1/10S0R0J	RS1/10S0R0J	RS1/10S0R0J	RS1/10S0R0J
R514	*****	*****	*****	RS1/10S103J	*****	RS1/10S103J
R515	*****	*****	*****	RS1/10S223J	*****	RS1/10S682J
R516	*****	*****	*****	RS1/10S222J	*****	RS1/10S222J
R517	*****	*****	*****	RS1/10S152J	*****	RS1/10S152J
R522	RS1/10S222J	RS1/10S222J	RS1/10S101J	RS1/10S222J	RS1/10S222J	RS1/10S222J
R525	RS1/10S182J	RS1/10S182J	*****	RS1/10S182J	RS1/10S182J	RS1/10S182J
R526	RS1/10S821J	RS1/10S821J	*****	RS1/10S821J	RS1/10S821J	RS1/10S821J
R527	RS1/10S101J	RS1/10S101J	*****	RS1/10S101J	RS1/10S101J	RS1/10S101J
R528	RS1/10S680J	RS1/10S680J	*****	RS1/10S680J	RS1/10S680J	RS1/10S680J
R529	RS1/10S331J	RS1/10S331J	*****	RS1/10S331J	RS1/10S331J	RS1/10S331J
R530	RS1/10S333J	RS1/10S333J	*****	RS1/10S333J	RS1/10S333J	RS1/10S333J
R531	*****	*****	RS1/10S221J	*****	*****	*****
R532	*****	*****	RS1/10S682J	*****	*****	*****
R533	RS1/10S0R0J	RS1/10S0R0J	*****	RS1/10S0R0J	RS1/10S0R0J	RS1/10S0R0J
R534	RS1/10S102J	RS1/10S102J	RS1/10S102J	*****	RS1/10S102J	*****
R535	RS1/10S222J	RS1/10S222J	RS1/10S222J	*****	RS1/10S222J	*****
R536	RS1/10S152J	RS1/10S152J	RS1/10S152J	*****	RS1/10S152J	*****
R537	RS1/10S102J	RS1/10S102J	RS1/10S102J	*****	RS1/10S102J	*****
R538	*****	*****	RS1/10S0R0J	RS1/10S0R0J	RS1/10S0R0J	RS1/10S0R0J
R540,541	*****	*****	RS1/10S0R0J	*****	*****	*****
R542	*****	*****	*****	RS1/10S225J	*****	*****
R603	RS1/10S472J	RS1/10S472J	*****	*****	*****	*****
R604,605	RS1/10S333J	RS1/10S333J	*****	*****	*****	*****
R606,607	RS1/10S102J	RS1/10S102J	*****	*****	*****	*****
R608,610	RS1/10S102J	RS1/10S102J	*****	*****	*****	*****
R609	RS1/10S681J	RS1/10S681J	*****	*****	*****	*****
R611	RS1/10S223J	RS1/10S223J	*****	*****	*****	*****
R612,614	RS1/10S102J	RS1/10S102J	*****	*****	*****	*****
R613,615	RS1/10S104J	RS1/10S104J	*****	*****	*****	*****
R616,618	RS1/10S102J	RS1/10S102J	*****	*****	*****	*****
R617,619	RS1/10S473J	RS1/10S473J	*****	*****	*****	*****
R620,622	RS1/10S102J	RS1/10S102J	*****	*****	*****	*****
R621,623	RS1/10S473J	RS1/10S473J	*****	*****	*****	*****
R624,698	RS1/10S473J	RS1/10S473J	*****	*****	*****	*****
R625,628	RS1/10S104J	RS1/10S104J	*****	*****	*****	*****
R626,627	RS1/10S102J	RS1/10S102J	*****	*****	*****	*****
R629	RS1/10S105J	RS1/10S105J	*****	*****	*****	*****
R630,631	RS1/10S102J	RS1/10S102J	*****	*****	*****	*****
R632,633	RS1/10S102J	RS1/10S102J	*****	*****	*****	*****
R634,635	RS1/10S102J	RS1/10S102J	*****	*****	*****	*****
R636,638	RS1/10S104J	RS1/10S104J	*****	*****	*****	*****

# KEX-P8256ZT,P8256ZT-91,P8156ZT,P8156ZT-91

Circuit Symbol & No.	KEX-P8256ZT/EW Part No.	KEX-P8156ZT/EW Part No.	KEX-P8156ZT/UC Part No.	KEX-P8256ZT/AU Part No.	KEX-P8256ZT/ES Part No.	KEX-P8156ZT/ES Part No.
R637,639	RS1/10S102J	RS1/10S102J	.....	.....	.....	.....
R640	RS1/10S104J	RS1/10S104J	.....	.....	.....	.....
R641,642	RS1/10S222J	RS1/10S222J	.....	.....	.....	.....
R643,645	RS1/10S102J	RS1/10S102J	.....	.....	.....	.....
R649	RS1/10S102J	RS1/10S102J	.....	.....	.....	.....
R651	RS1/10S0R0J	RS1/10S0R0J	.....	.....	RS1/10S0R0J	RS1/10S0R0J
R652	.....	.....	RS1/10S333J	RS1/10S333J	.....	.....
R653,656	.....	.....	RS1/10S683J	RS1/10S683J	.....	.....
R654	.....	.....	RS1/10S154J	RS1/10S154J	.....	.....
R655	.....	.....	RS1/10S153J	RS1/10S153J	.....	.....
R658	RS1/10S102J	RS1/10S102J	.....	.....	.....	.....
R659,660	RS1/10S392J	RS1/10S392J	RS1/10S562J	RS1/10S123J	RS1/10S562J	RS1/10S562J
R661	RS1/10S333J	RS1/10S333J	RS1/10S333J	.....	RS1/10S333J	RS1/10S333J
R662	RS1/10S223J	RS1/10S223J	RS1/10S153J	.....	RS1/10S153J	RS1/10S153J
R663	RS1/10S273J	RS1/10S273J	RS1/10S183J	.....	RS1/10S183J	RS1/10S183J
R672	.....	.....	.....	RS1/10S222J	.....	.....
R673	.....	.....	.....	RS1/10S102J	.....	.....
R680	RS1/10S103J	RS1/10S103J	RS1/10S103J	.....	RS1/10S103J	RS1/10S103J
R681	RS1/10S222J	RS1/10S222J	RS1/10S222J	.....	RS1/10S222J	RS1/10S222J
R702	RS1/10S101J	RS1/10S101J	RS1/10S101J	RS1/10S102J	RS1/10S102J	RS1/10S102J
R703	.....	.....	.....	RS1/10S473J	RS1/10S473J	RS1/10S473J
R704	RS1/10S0R0J	RS1/10S0R0J	RS1/10S0R0J	RS1/10S473J	RS1/10S473J	RS1/10S473J
R768	RS1/10S102J	RS1/10S102J	.....	.....	.....	.....
R803	RS1/10S2R2J	RS1/10S2R2J	RS1/10S3R3J	RS1/10S3R3J	RS1/10S3R3J	RS1/10S3R3J
R819	.....	.....	RS1/10S102J	.....	.....	RS1/10S102J
R820	.....	.....	RS1/10S473J	.....	.....	RS1/10S473J
R836	.....	.....	.....	RS1/10S102J	RS1/10S102J	RS1/10S102J
R849	RS1/10S102J	.....	.....	RS1/10S102J	RS1/10S102J	RS1/10S102J
R1008	RS1/10S224J	RS1/10S224J	.....	RS1/10S224J	.....	.....
R1053	.....	.....	.....	RS1/10S472J	RS1/10S472J	RS1/10S472J
C503	CKSQYB223K25	CKSQYB223K25	.....	CKSQYB223K25	CKSQYB223K25	CKSQYB223K25
C510	CEA1R5M50LL	CEA1R5M50LL	.....	.....	.....	.....
C511	.....	.....	.....	CCH1165	.....	CCH1165
C512	.....	.....	.....	CKSQYB333K25	.....	CKSQYB103K25
C513	CGCYX473K25	CGCYX473K25	CGCYX473K25	CKCYB103K50	CGCYX473K25	CGCYX473K25
C516	CCSQCH561J50	CCSQCH561J50	.....	CCSQCH561J50	CCSQCH561J50	CCSQCH561J50
C517	CCSQCH101J50	CCSQCH101J50	.....	CCSQCH101J50	CCSQCH101J50	CCSQCH101J50
C518	CKSQYB103K25	CKSQYB103K25	.....	CKSQYB103K25	CKSQYB103K25	CKSQYB103K25
C519	CEAS100M16	CEAS100M16	.....	CEAS100M16	CEAS100M16	CEAS100M16
C521	CCH1165	CCH1165	CCH1165	.....	CCH1165	.....
C522	CKSQYB103K25	CKSQYB103K25	CKSQYB103K25	.....	CKSQYB103K25	.....
C601	CKSQYB472K50	CKSQYB472K50	.....	.....	.....	.....
C602	CEA1R5M50LL	CEA1R5M50LL	.....	.....	.....	.....
C603,625	CKSQYB103K25	CKSQYB103K25	.....	.....	.....	.....
C604	CEASR33M50	CEASR33M50	.....	.....	.....	.....
C605	CKSQYB473K25	CKSQYB473K25	.....	.....	.....	.....
C606	CSZA100K10	CSZA100K10	.....	.....	.....	.....
C607	CKSQYB472K50	CKSQYB472K50	.....	.....	.....	.....
C608,609	CEAS010M50	CEAS010M50	.....	.....	.....	.....
C610	CEAS3R3M50	CEAS3R3M50	.....	.....	.....	.....
C611,620	CEAS100M16	CEAS100M16	.....	.....	.....	.....
C612,622	CKSQYB223K25	CKSQYB223K25	.....	.....	.....	.....
C613	CKSQYB103K25	CKSQYB103K25	.....	.....	.....	.....
C614	CKSQYB102K50	CKSQYB102K50	.....	.....	.....	.....
C615,618	CKSQYB103K25	CKSQYB103K25	.....	.....	.....	.....
C616,617	CCSQCH150J50	CCSQCH150J50	.....	.....	.....	.....
C619,621	CKSQYB103K25	CKSQYB103K25	.....	.....	.....	.....
C623	CKSQYB102K50	CKSQYB102K50	.....	.....	.....	.....
C624	CKSQYB473K25	CKSQYB473K25	.....	.....	.....	.....
C626	CKSQYB103K25	CKSQYB103K25	.....	.....	.....	.....

# KEX-P8256ZT,P8256ZT-91,P8156ZT,P8156ZT-9

Circuit Symbol & No.	KEX-P8256ZT/EW Part No.	KEX-P8156ZT/EW Part No.	KEX-P8156ZT/UC Part No.	KEX-P8256ZT/AU Part No.	KEX-P8256ZT/ES Part No.	KEX-P8156ZT/ES Part No.
C651,659	*****	*****	CEAS100M16	CEAS100M16	*****	*****
C652	*****	*****	CKSQYB393K25	CKSQYB393K25	*****	*****
C653	*****	*****	CKSQYB562K50	CKSQYB562K50	*****	*****
C654	*****	*****	CKSQYB222K50	CKSQYB222K50	*****	*****
C655	*****	*****	CKSQYB822K50	CKSQYB822K50	*****	*****
C656	*****	*****	CKSQYB152K50	CKSQYB152K50	*****	*****
C657	*****	*****	CEAS220M16	CEAS220M16	*****	*****
C658	*****	*****	CCSQCH471J50	CCSQCH471J50	*****	*****
C660	*****	*****	CKSQYB223K25	CKSQYB223K25	*****	*****
C661	*****	*****	CKSQYB103K25	CKSQYB103K25	*****	*****
C662,667	*****	*****	CKSQYB103K25	CKSQYB103K25	*****	*****
C664,665	CKSQYB393K25	CKSQYB393K25	CKSQYB392K50	CKSQYB472K50	CKSQYB153K25	CKSQYB153K25
C666	CKSQYB273K25	CKSQYB273K25	CKSQYB333K25	*****	CKSQYB333K25	CKSQYB333K25
C675	CKSQYB103K25	CKSQYB103K25	*****	*****	*****	CKSQYB103K25
C676	*****	*****	*****	*****	*****	CKSQYB103K25
C680	CKSQYB153K25	CKSQYB153K25	CKSQYB183K25	*****	CKSQYB183K25	CKSQYB183K25
C681	CKSQYB682K50	CKSQYB682K50	CKSQYB682K50	*****	CKSQYB682K50	CKSQYB682K50
C701	CEA220M16LL	CEA220M16LL	CEA220M16LL	*****	*****	*****
C994	CKSQYB473K25	CKSQYB473K25	*****	CKSQYB473K25	*****	*****

## ● FM Unit

Circuit Symbol & No.	KEX-P8156ZT/EW KEX-P8256ZT/EW Part No.	KEX-P8156ZT/UC Part No.	KEX-P8156ZT/ES KEX-P8256ZT/ES KEX-P8256ZT/AU Part No.
Q1,5	DTC124EU	*****	DTC124EU
Q2	*****	*****	DTC124EU
Q71	2SC4116	*****	*****
T51	CTE1111	CTE1111	CTC1071
T52	CTE1022	CTE1022	*****
T71	CTE1043	*****	*****
L2	LAUR22M	*****	*****
L71	LAU3R9K	*****	*****
CF52,53	CTF1057	CTF1057	CTF-182
VR1	CCP1183	*****	CCP1183
FE101	CWB1070	CWB1059	CWB1070
R3	*****	*****	RS1/10S103J
R7	RS1/10S560J	RS1/10S0R0J	RS1/10S0R0J
R10,12	RS1/10S0R0J	*****	RS1/10S0R0J
R13	*****	RD1/4PS0R0JL	RD1/4PS0R0JL
R21,27	*****	RS1/10S0R0J	RS1/10S0R0J
R25	RS1/10S243J	*****	*****
R56	RS1/10S473J	RS1/10S473J	RS1/10S822J
R57	RS1/10S472J	RS1/10S472J	*****
R58	RS1/16S203J	RS1/16S103J	RS1/16S243J
R60	RS1/10S153J	RS1/10S223J	RS1/10S823J
R72	RS1/10S123J	*****	*****
R73	RS1/10S103J	*****	*****
R74	RS1/10S331J	*****	*****
R75	RS1/10S102J	*****	*****
R76	RS1/10S151J	*****	*****
R102	RS1/16S223J	RS1/16S223J	RS1/16S153J
R151,152	RS1/10S392J	RS1/10S222J	RS1/10S222J
R154	RS1/10S124J	RS1/10S104J	RS1/10S154J
R180	RS1/10S335J	RS1/10S105J	RS1/10S105J
C10	CCSQCH101K50	*****	*****
C58	CCSQCH040C50	CCSQCH040C50	CCSQCH300J50
C72,73,80	CKSQYB103K25	*****	*****
C74	CKSQYB473K16	*****	*****
C103	CKSQYB152K50	CKSQYB222K50	CKSQYB102K50
C110	CKSYB224K16	CKSYB684K16	CKSYB684K16
C151,152	CKSQYB153K25	CKSQYB393K25	CKSQYB273K25

# KEX-P8256ZT,P8256ZT-91,P8156ZT,P8156ZT-91

## ● AM Unit

Circuit Symbol & No.	KEX-P8156ZT/EW	KEX-P8156ZT/UC	KEX-P8256ZT/AU	KEX-P8256ZT/ES
	Part No.	Part No.	Part No.	Part No.
Q203	*****	*****	*****	DTC124EU
Q232	DTC124EU	*****	DTC124EU	DTC124EU
T203	CTB1040	CTB1040	CTB1084	CTB1040
L202	CTB1102	CTB1103	CTB1103	CTB1103
VR201	CCP1179	CCP1181	CCP1179	CCP1179
VR202	CCP1182	*****	CCP1182	CCP1182
CF201	CTF1262	CTF1325	CTF1262	CTF1262
R204	RS1/10S472J	RS1/10S472J	RS1/10S473J	RS1/10S472J
R206	*****	*****	*****	*****
R207	RS1/10S103J	RS1/10S103J	*****	RS1/10S103J
R214	*****	*****	*****	RS1/10S222J
R232	*****	*****	*****	RS1/16S102J
R239	RS1/10S152J	RS1/10S272J	RS1/10S152J	RS1/10S152J
C203	CSZA3R3M16	CEA150M10LS	CEA150M10LS	CEA150M10LS
C213	CCSQCH330J50	CCSQCH330J50	CCSQJ221J50	CCSQCH330J50
C225	CKSQYB103K25	CKSQYB103K25	*****	CKSQYB103K25
C230	CKSQYB682K50	CKSQYB472K50	CKSQYB682K50	CKSQYB332K50
C242	CCSQCH030C50	*****	CCSQCH030C50	CCSQCH030C50

## ● Key Board Unit

Circuit Symbol & No.	KEX-P8156ZT/EW	KEX-P8156ZT/UC	KEX-P8256ZT/AU	KEX-P8256ZT/ES	KEX-P8156ZT/ES
	Part No.	Part No.	Part No.	Part No.	Part No.
S901	CCS1106	CCS1106	*****	*****	*****
S926	*****	*****	CSD1019	CSD1019	CSD1019
IL904	CEL1343	CEL1343	CEL1343	*****	CEL1343
IL906	CEL1343	*****	CEL1343	CEL1343	*****

## ● Deck Unit

Circuit Symbol & No.	KEX-P8256ZT/ES	KEX-P8156ZT/ES
	Part No.	Part No.
IC251	HA12163	HA12173-01
R301,302	*****	RS1/10S223J
R303,304	*****	RS1/10S561J
R321	*****	RS1/10S223J
C303-308	*****	CKSQYB222J50
C311,312	*****	CKSQYB104K16
C322	*****	CEV100M16

## ● LCD Unit

Circuit Symbol & No.	KEX-P8256ZT/EW	KEX-P8156ZT/ES
	Part No.	Part No.
LCD	CAW1294	CAW1293

====Circuit Symbol & No. Part Name=====

Part No.

Unit Number : CWA1066  
Unit Name : AM Stereo Unit(KEX-P8256ZT/AU)

### MISCELLANEOUS

IC 251 MC13020P  
D 251 252 1SS133  
T 251 252 Filter CTF1244  
X 251 Ceramic Resonator 3.6MHz CSS1302

### RESISTORS

R 251 RS1/10S0R0J  
R 252 254 RS1/10S102J  
R 253 255 RS1/10S223J  
R 256 RS1/10S823J  
R 259 260 RS1/10S333J  
  
R 261 262 RS1/10S0R0J  
R 263 RS1/10S431J  
R 264 RS1/10S472J  
R 265 266 RS1/10S152J  
R 267 RN1/10SE911D

====Circuit Symbol & No. Part Name=====

Part No.

R 268 RN1/10SE224D  
R 269 RS1/10S563J  
R 270 RS1/10S272J  
R 271 RS1/10S561J  
R 272 273 RS1/10S223J

### CAPACITORS

C 251 259 260 270 CKSQYB103K50  
C 252 253 255 272 273 CKSQYB332K50  
C 254 266 CEA100M16LS2  
C 256 257 CEA010M50LS2  
C 258 265 CEA2R2M50LS2  
  
C 261 262 CQMA333J50  
C 263 CEA470M16LS  
C 264 CEA4R7M35LS  
C 267 CFTNA474J50  
C 268 CFTNA474J50  
  
C 269 CCDSL510J50  
C 271 CEA330M16LS  
C 274 275 CEAR33M50LS2

# KEX-P8256ZT,P8256ZT-91,P8156ZT,P8156ZT-9

====Circuit Symbol & No. Part Name=====	Part No.	====Circuit Symbol & No. Part Name=====	Part No.
Unit Number : CWA1077		R 215	RS1/16S473J
Unit Name : MW/SW Unit(KEX-P8156ZT/ES)		R 219 232	RS1/16S0R0J
MISCELLANEOUS		R 222	RS1/10S471J
IC 201	PAF001A	R 224	RS1/16S333J
IC 202	CWV1041	R 225	RS1/10S104J
Q 201	2SK291	R 235	RS1/16S104J
Q 202 210 220	2SC4116	R 236 242	RS1/10S103J
Q 204	2SC2412K	R 239	RS1/10S152J
Q 206	HN1C01FU	R 243	RS1/10S152J
Q 221 222	2SC3775	R 244	RS1/10S242J
Q 231	DTC124EU	R 248	RS1/10S222J
Q 232	DTC124EU	R 249	RS1/10S225J
D 201 204	1SS226	CAPACITORS	
D 205	KV1580	C 201 216 225 234	CKSQYB103K25
L 201 Inductor	CTF1287	C 203	CEA150M10LS
L 202 Coil	CTB1103	C 205	CCSRCH120J50
L 205 Inductor	CTF1299	C 208	CKSQYB223K25
L 207 Inductor	LAU3R3K	C 210	CSZSR47M20
L 211 Inductor	LCTB100K2125	C 212 230	CKSQYB332K50
L 212 213 Inductor	LCTB101K2125	C 213	CCSQCH080D50
T 203 Coil	CTB1084	C 214	CCSQJ181J50
T 204 Coil	CTE1079	C 215	CKSQYB104K16
T 205 Coil	CTE1038	C 217	CKSQYB473K16
T 206 Coil	CTE1072	C 219 227	CKSQYB103K25
CF 201 Filter	CTF1262	C 218 228 233	CKSQYB473K16
CF 202 Filter	CTF1191	C 220	CCSRCH430J50
X 201 Crystal Resonator 10.26MHz	CSS1111	C 221 243	CCSQCH120J50
VR 201 Semi-fixed 4.7kΩ (B)	CCP1179	C 224	CEA470M16LL
VR 202 Semi-fixed 15kΩ (B)	CCP1182	C 229	CEA470M16LL
RESISTORS		C 231	CCSRCH180J50
R 201	RS1/16S220J	C 232 241 244	CKSRYB103K25
R 202	RS1/10S102J	C 235	CEA47M50LL
R 204 246	RS1/10S473J	C 236	CEA0R1M50LL
R 205 209 216	RS1/10S470J	C 237	CEA4R7M35LL
R 206 217	RS1/10S472J	C 238	CEA3R3M50LL
R 207 212 237 238 241	RS1/10S103J	C 239	CKSQYB223K25
R 208 210 226 227 228 229	RS1/10S0R0J	C 242	CCSQCH030C50
R 211 223	RS1/16S103J		
R 213	RS1/16S561J		





# Service Manual

 **PIONEER**  
*The Art of Entertainment*  
**TOYOTA**

ORDER NO.  
**CRZ1615**

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## **LEXUS LS400** **AUDIO SYSTEM** **HEAD UNIT**

VEHICLE	DESTINATION	PRODUCED AFTER	TOYOTA PART No.	PIONEER MODEL No.
LEXUS LS400	U.S.A., CANADA	November 1994	86120-50360	KEX-P8156ZT/UC
	EUROPE		86120-50390	KEX-P8156ZT/EW
	UNITED KINGDOM		86120-50380	KEX-P8256ZT/EW
	AUSTRALIA		86120-50410	KEX-P8256ZT/AU
	HONG KONG		86120-50420	KEX-P8256ZT/ES
	MIDDLE EAST		86120-50400	KEX-P8156ZT/ES

Manufactured for TOYOTA  
by PIONEER ELECTRONIC CORPORATION

PUB. NO. **CRZ1615**

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# 1. EXPLODED VIEW

● Grille Assy(KEX-P8256ZT/EW,AU,ES)  
(Parts List:Page 1-28)

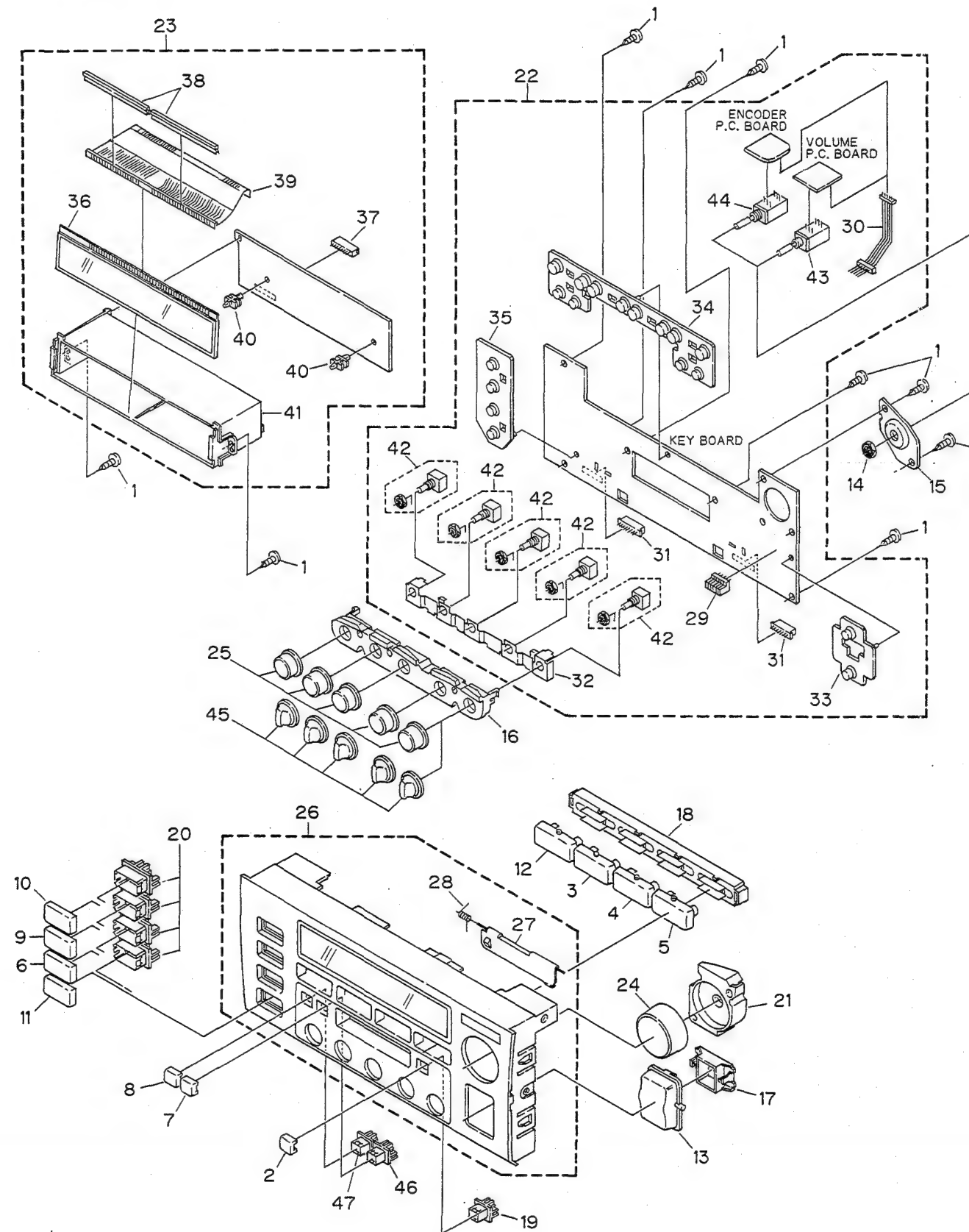


Fig.1

2-3

KEX-P8256ZT,P8256ZT-9I,P8156ZT,P8156ZT-9I

● Grille Assy(KEX-P8156ZT/EW,UC,ES)  
(Parts List:Page 1-29)

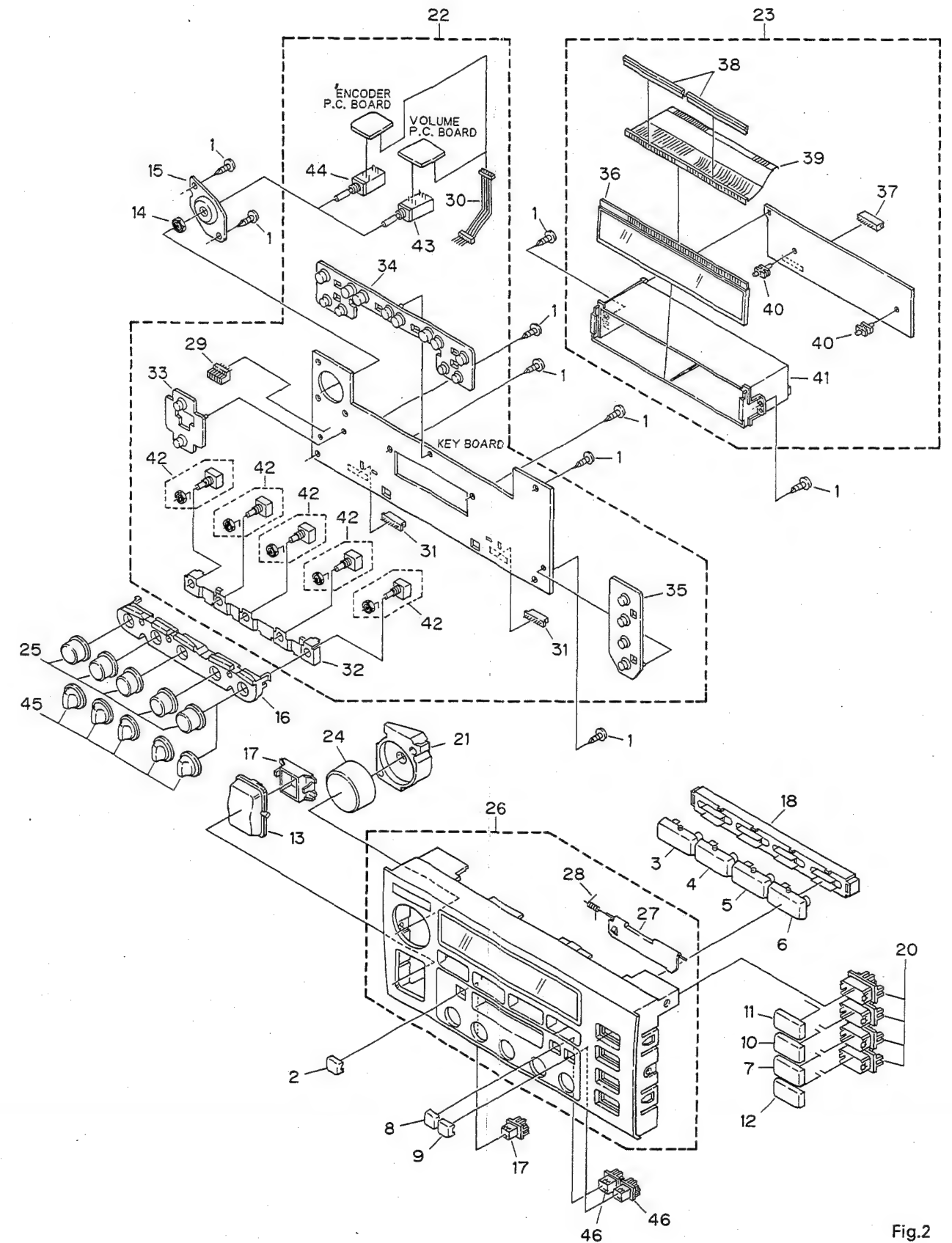


Fig.2

2-4

● Chassis(Parts List:Page 1-27)

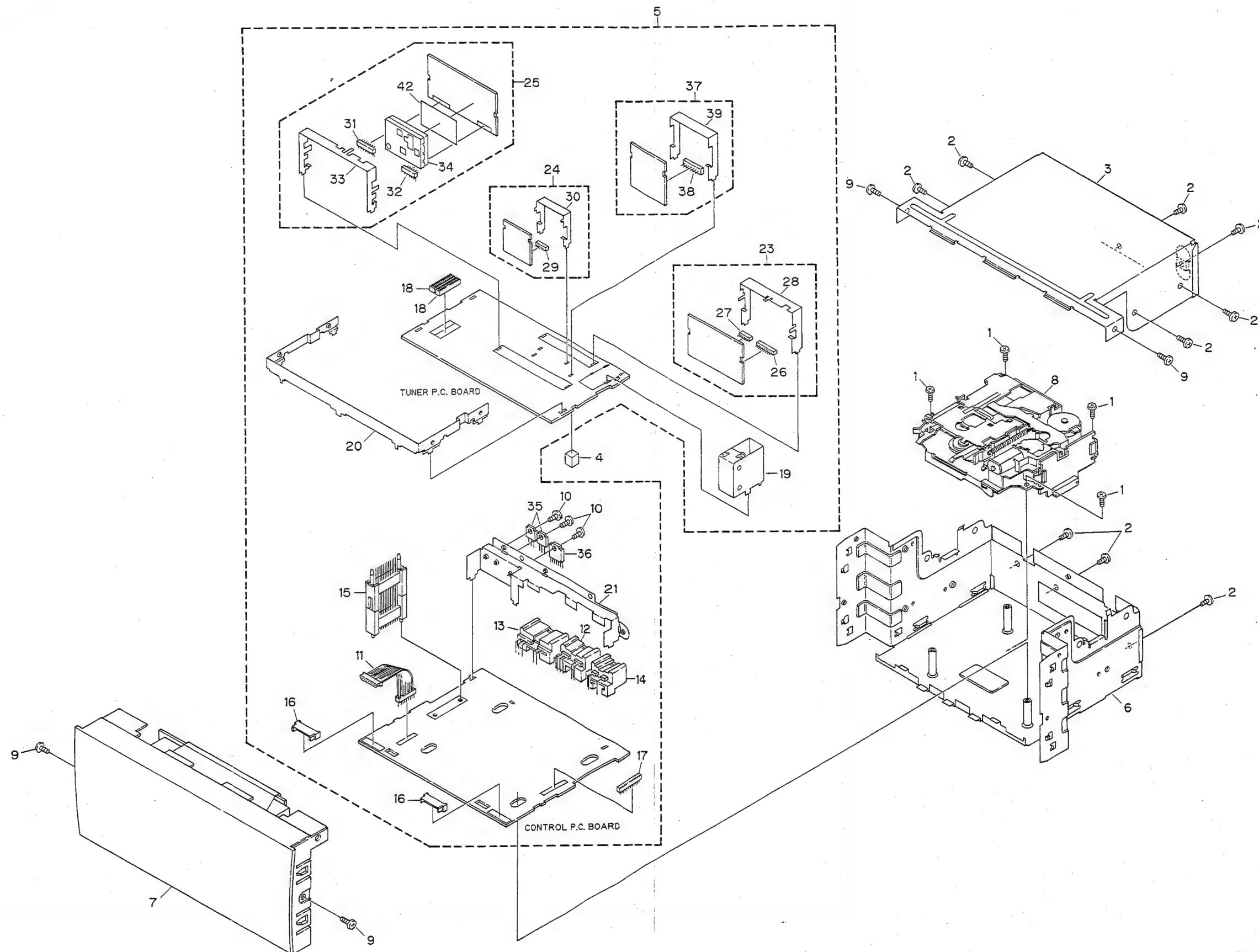


Fig.3

● Cassette Mechanism Module(Parts List:Page 1-30)

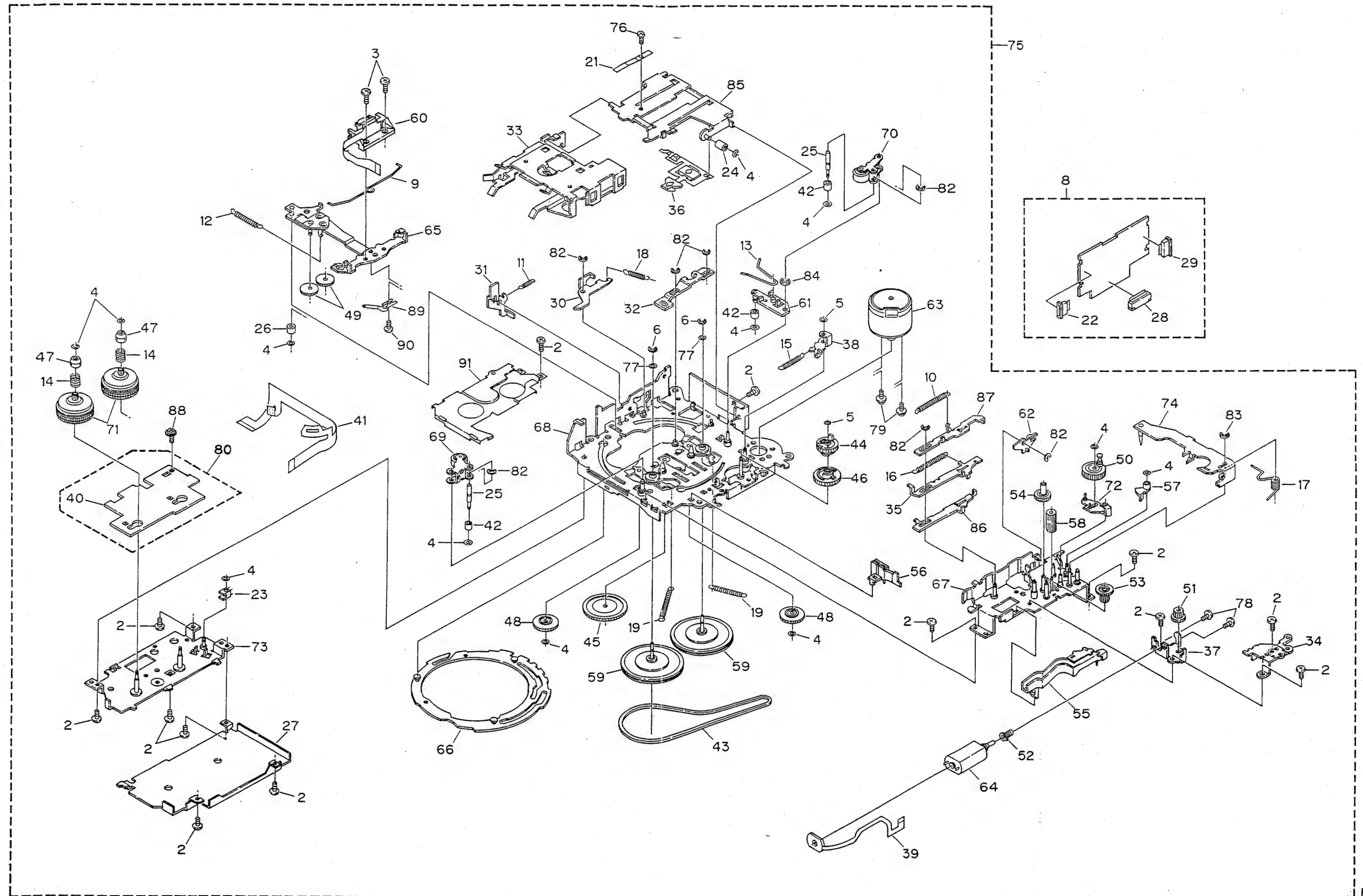
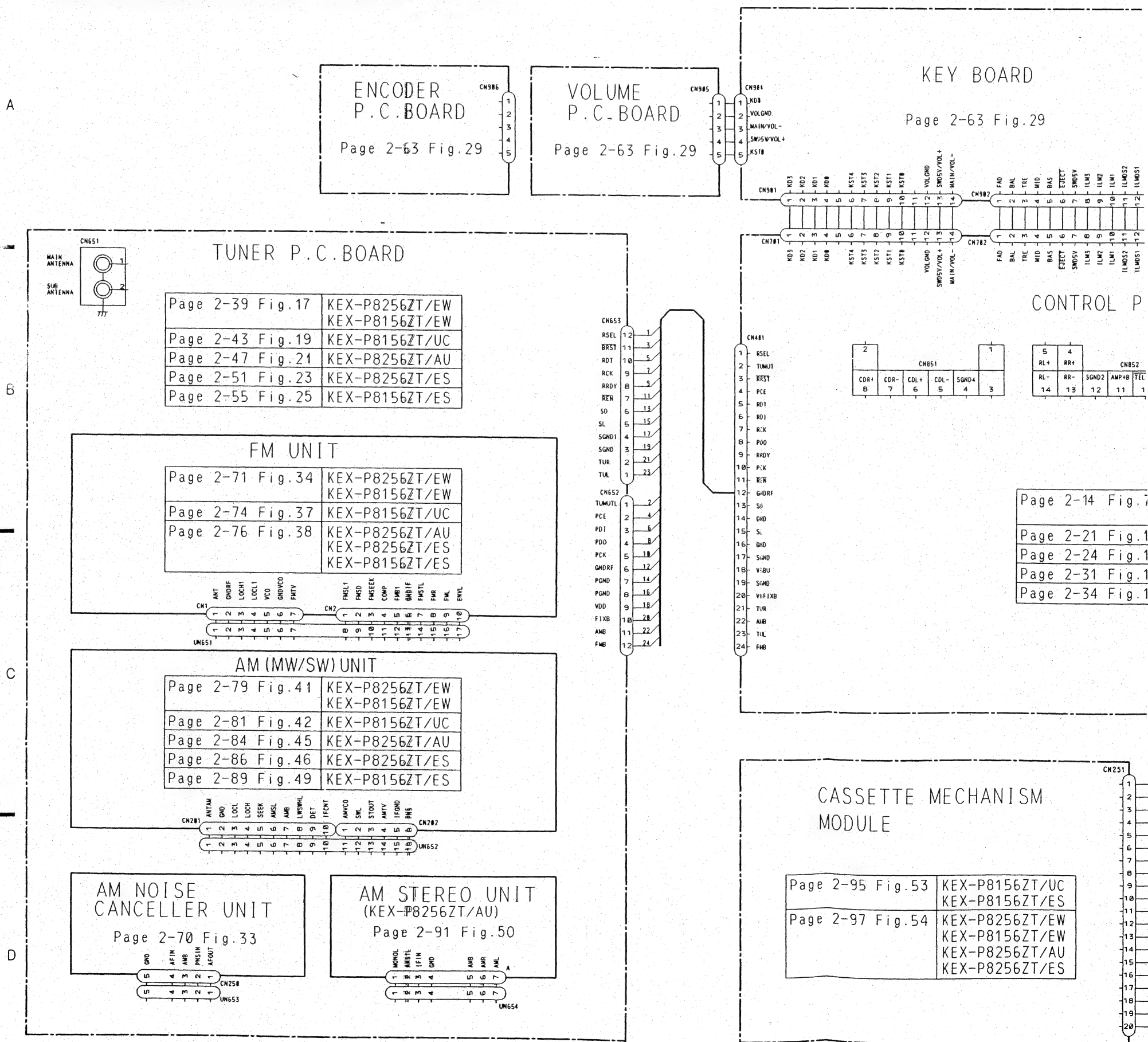


Fig.4





### 3. OVER ALL SCHEMATIC CIRCUIT DIAGRAM



KEY BOARD

Page 2-63 Fig.29

LCD UNIT

Page 2-59 Fig.27

CONTROL P.C. BOARD

2	1
CDR+ B	CDL- 3

5	4	3	2	1
RL+	RR+	SGND1	FL+	FR+
14	13	12	11	10

5	4	3	2	1
GND1	ANTA	ILL+	ILL-	ACC
14	13	12	11	10

Page 2-14 Fig.7	KEX-P8256ZT/EW
Page 2-21 Fig.10	KEX-P8156ZT/UC
Page 2-24 Fig.11	KEX-P8256ZT/AU
Page 2-31 Fig.14	KEX-P8256ZT/ES
Page 2-34 Fig.15	KEX-P8156ZT/ES

CASSETTE MECHANISM  
MODULE

Page 2-95 Fig.53	KEX-P8156ZT/UC
Page 2-97 Fig.54	KEX-P8256ZT/EW
	KEX-P8156ZT/ES
	KEX-P8256ZT/AU
	KEX-P8256ZT/ES

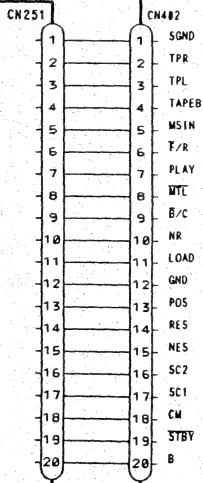


Fig.6



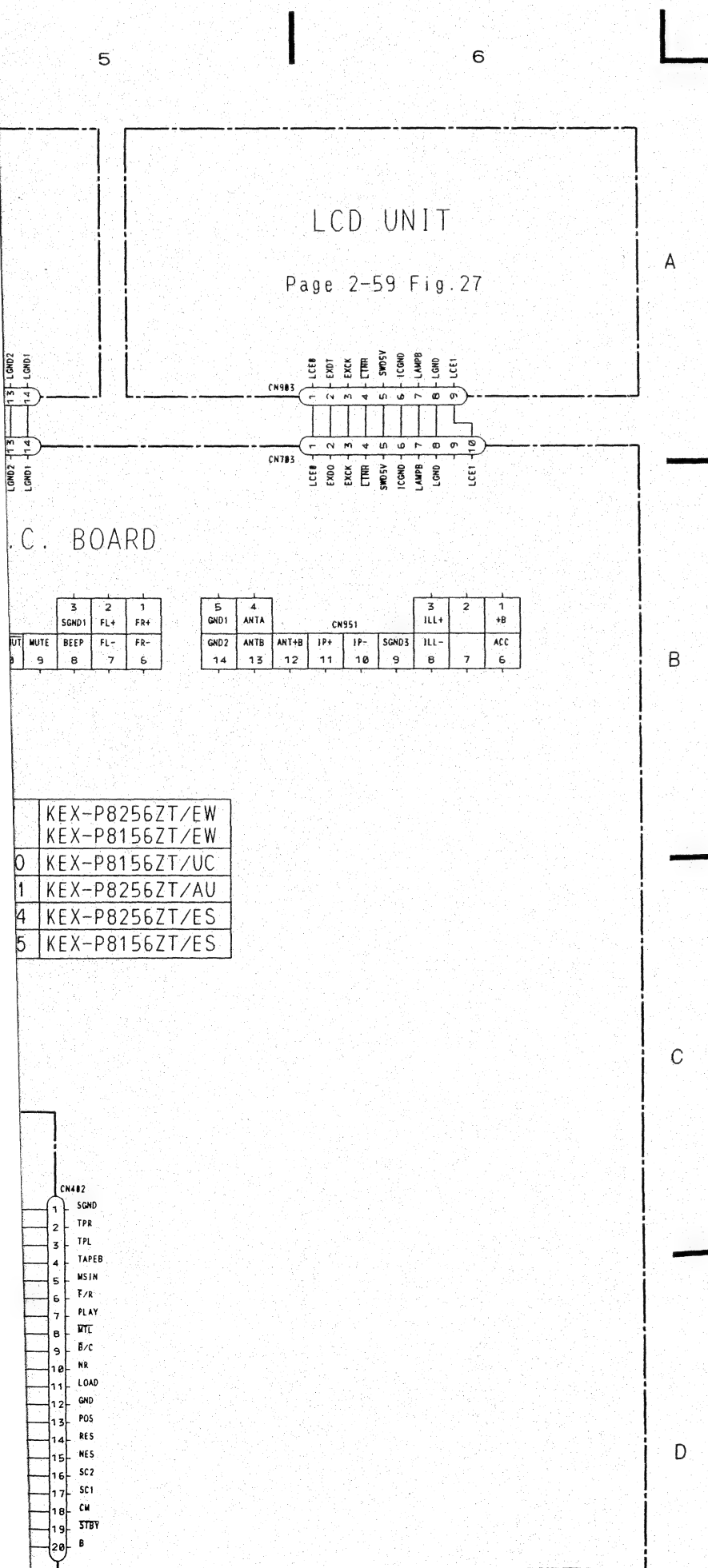
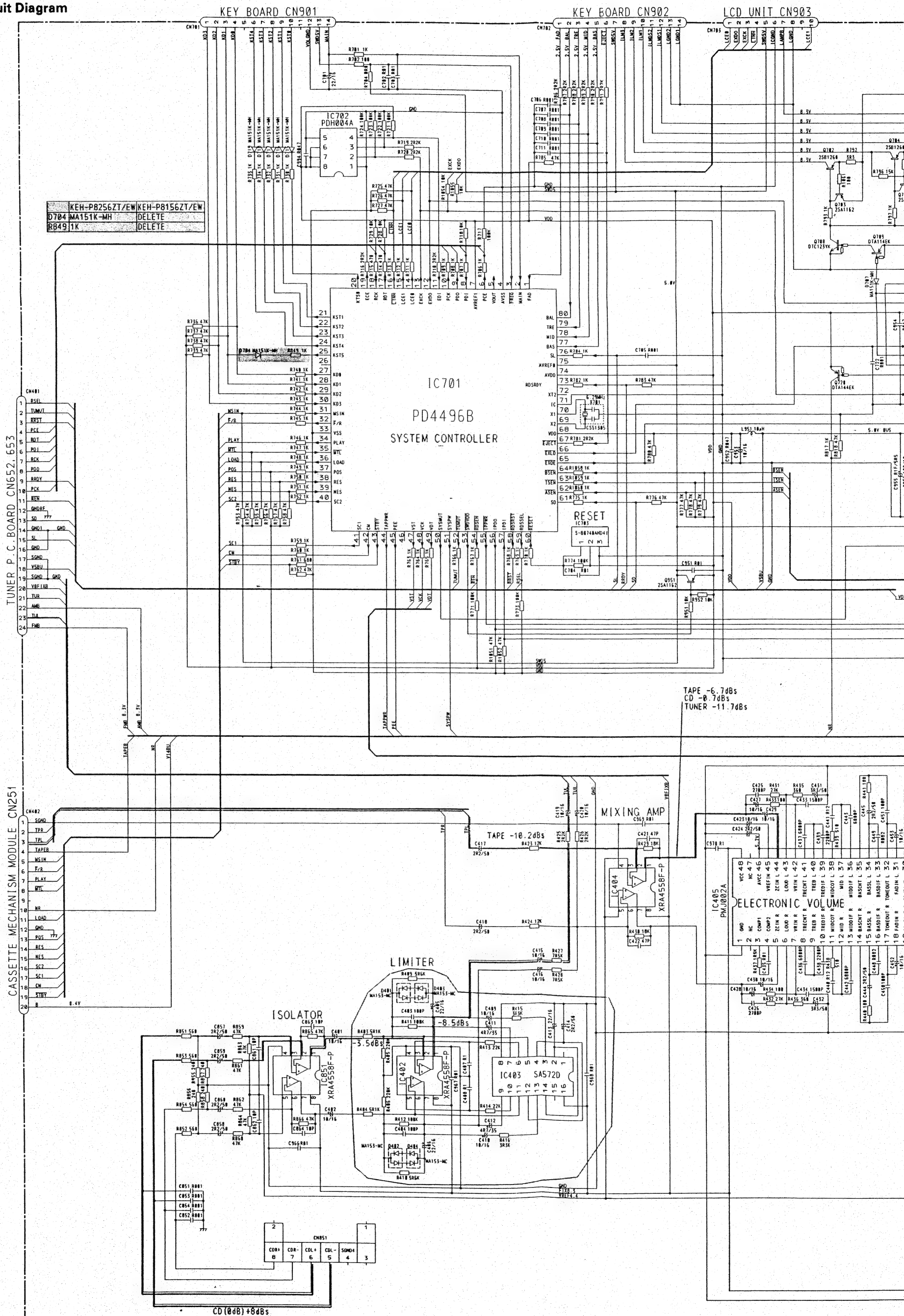


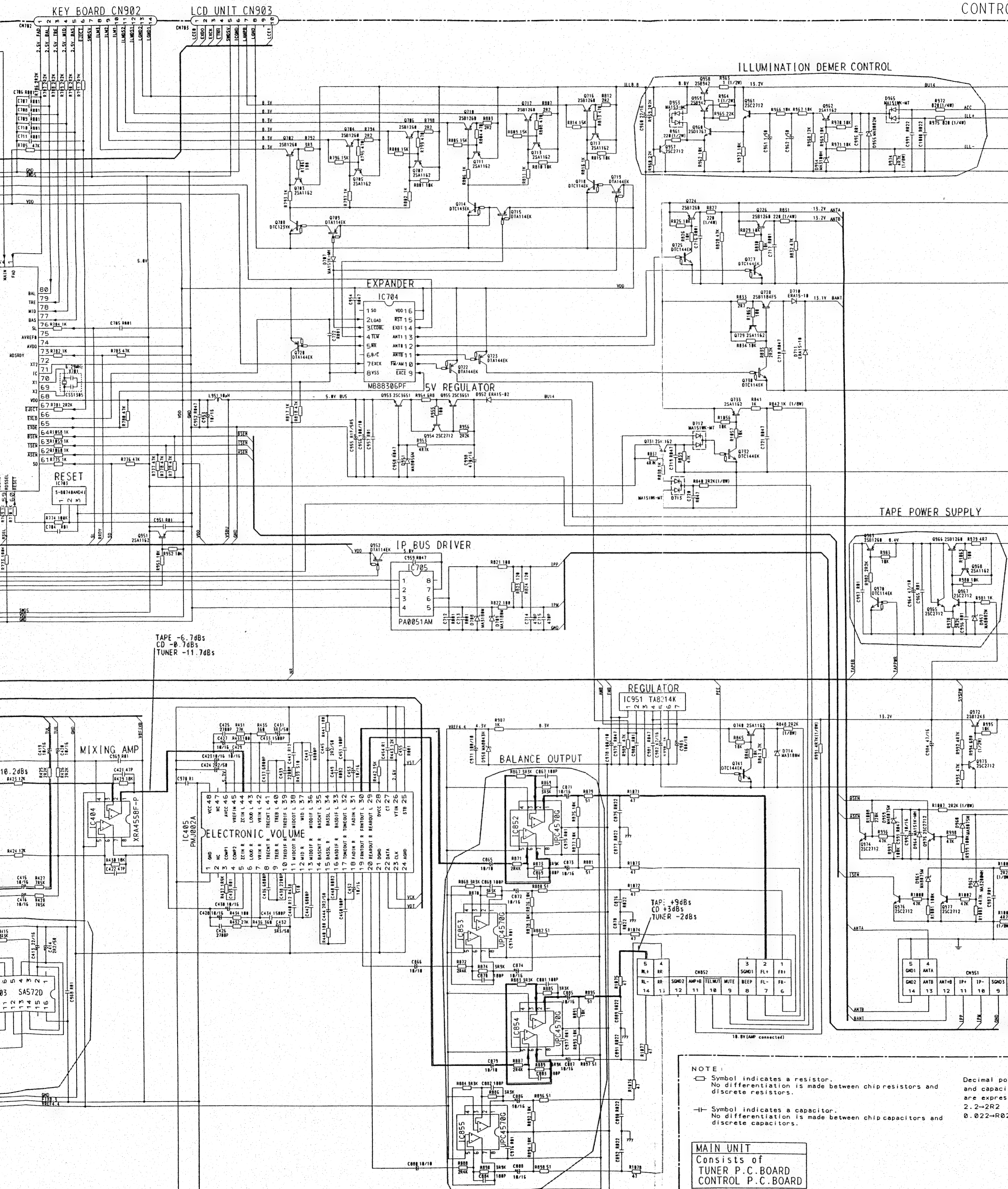
Fig.6

#### 4. CIRCUIT DIAGRAM AND PATTERN

#### 4.1 CONTROL P.C.BOARD(KEX-P8256ZT/EW,KEX-P8156ZT/EW)

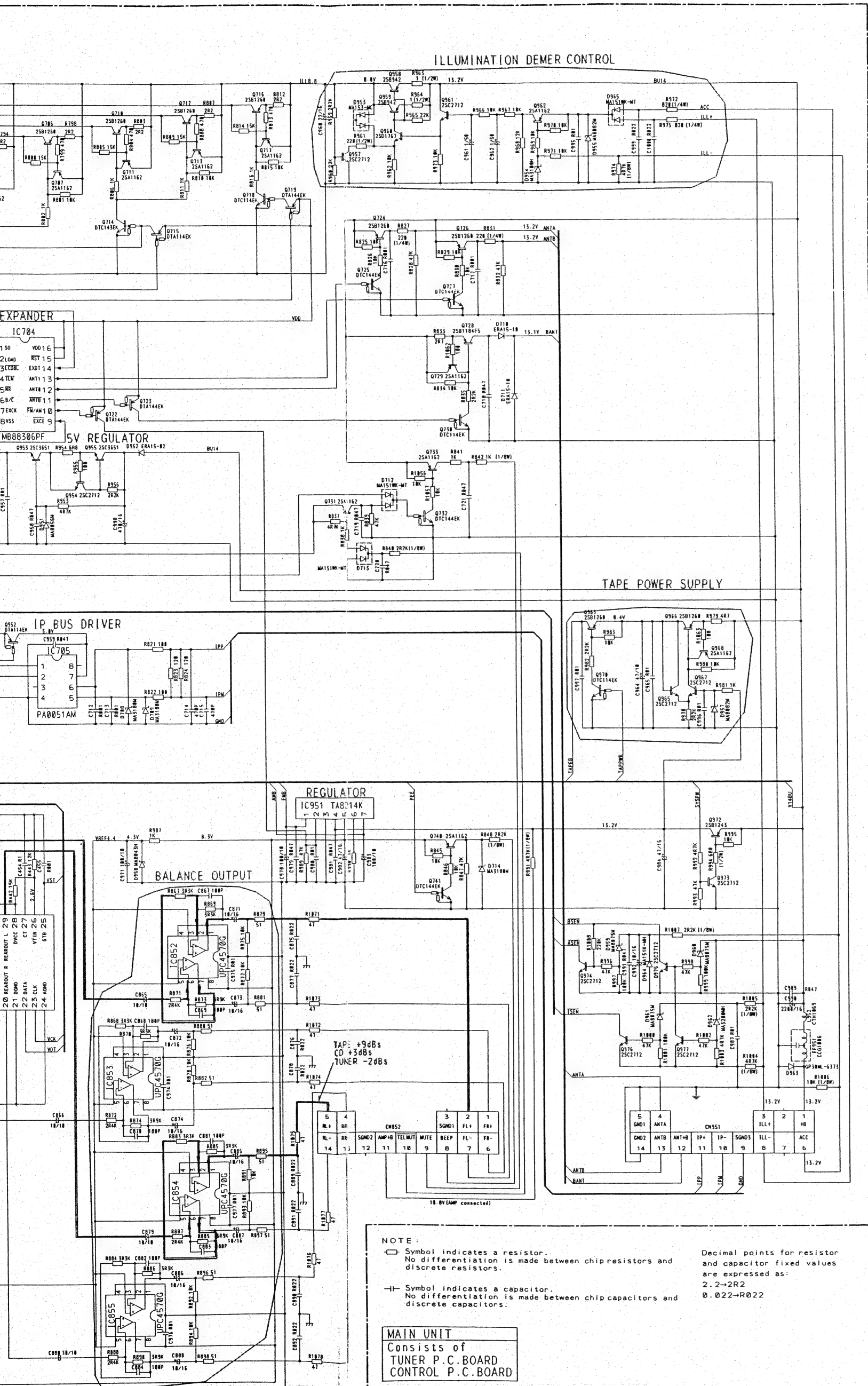
### ● Circuit Diagram



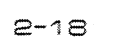




## CONTROL P.C. BOARD

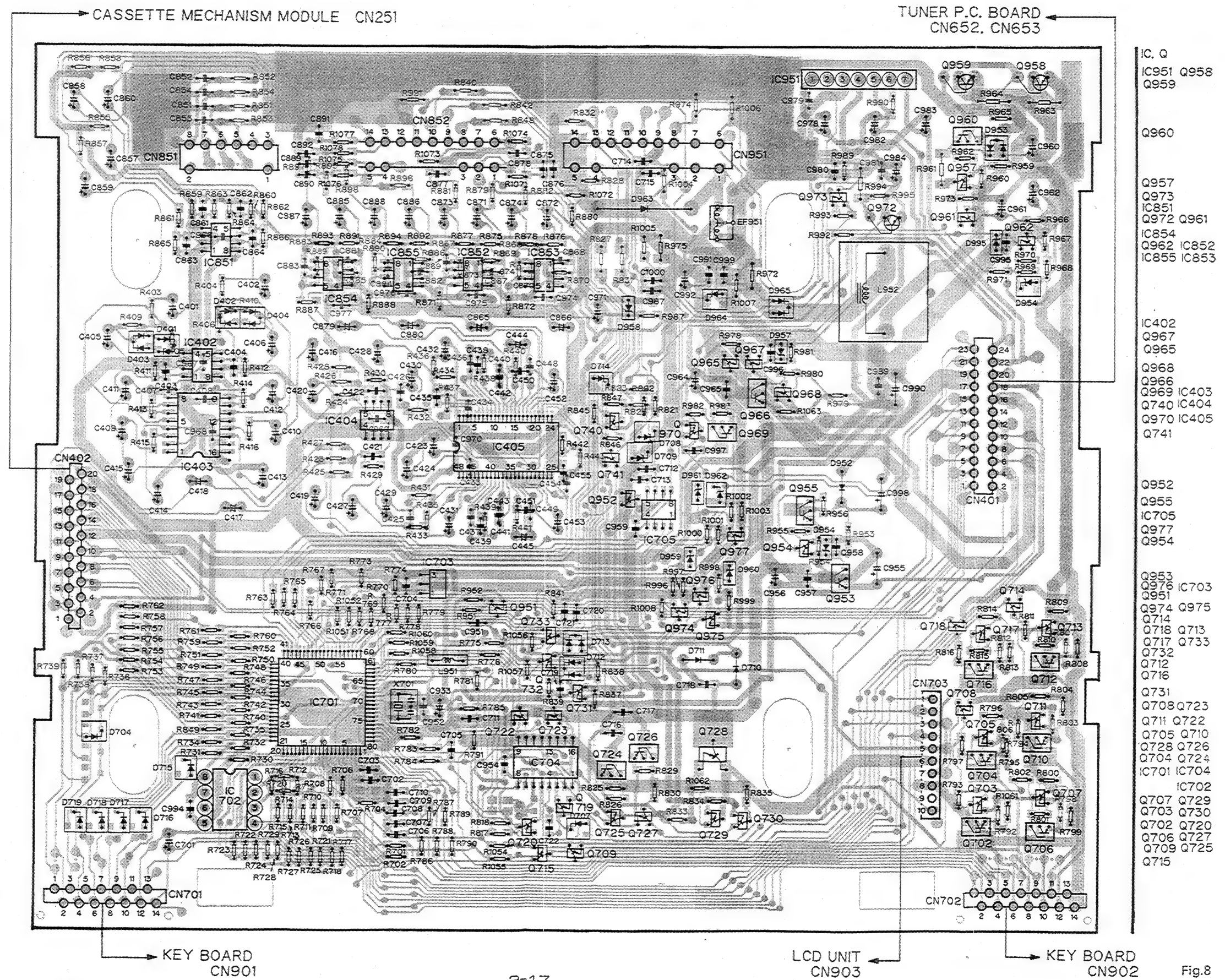


**Fig.7**

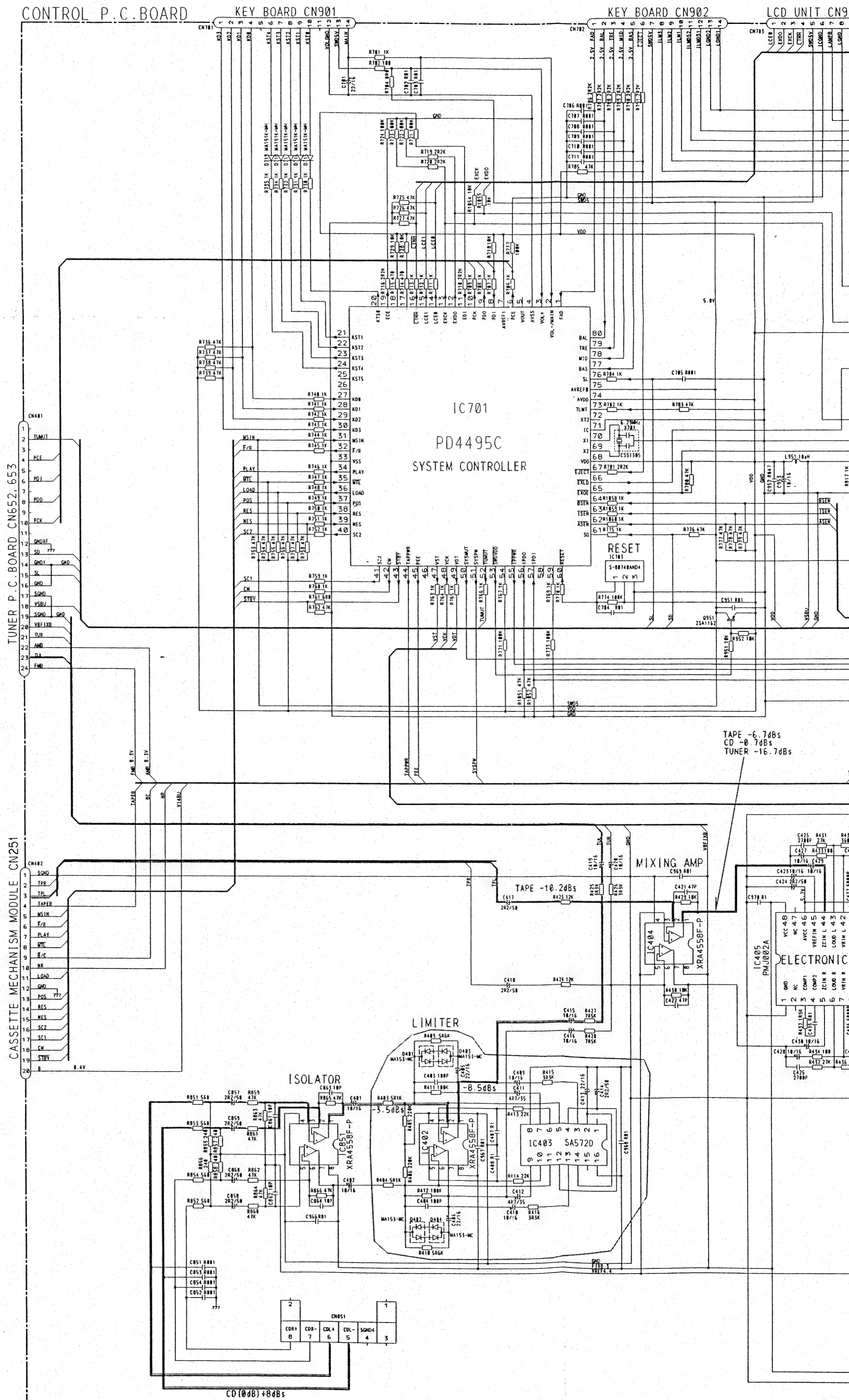




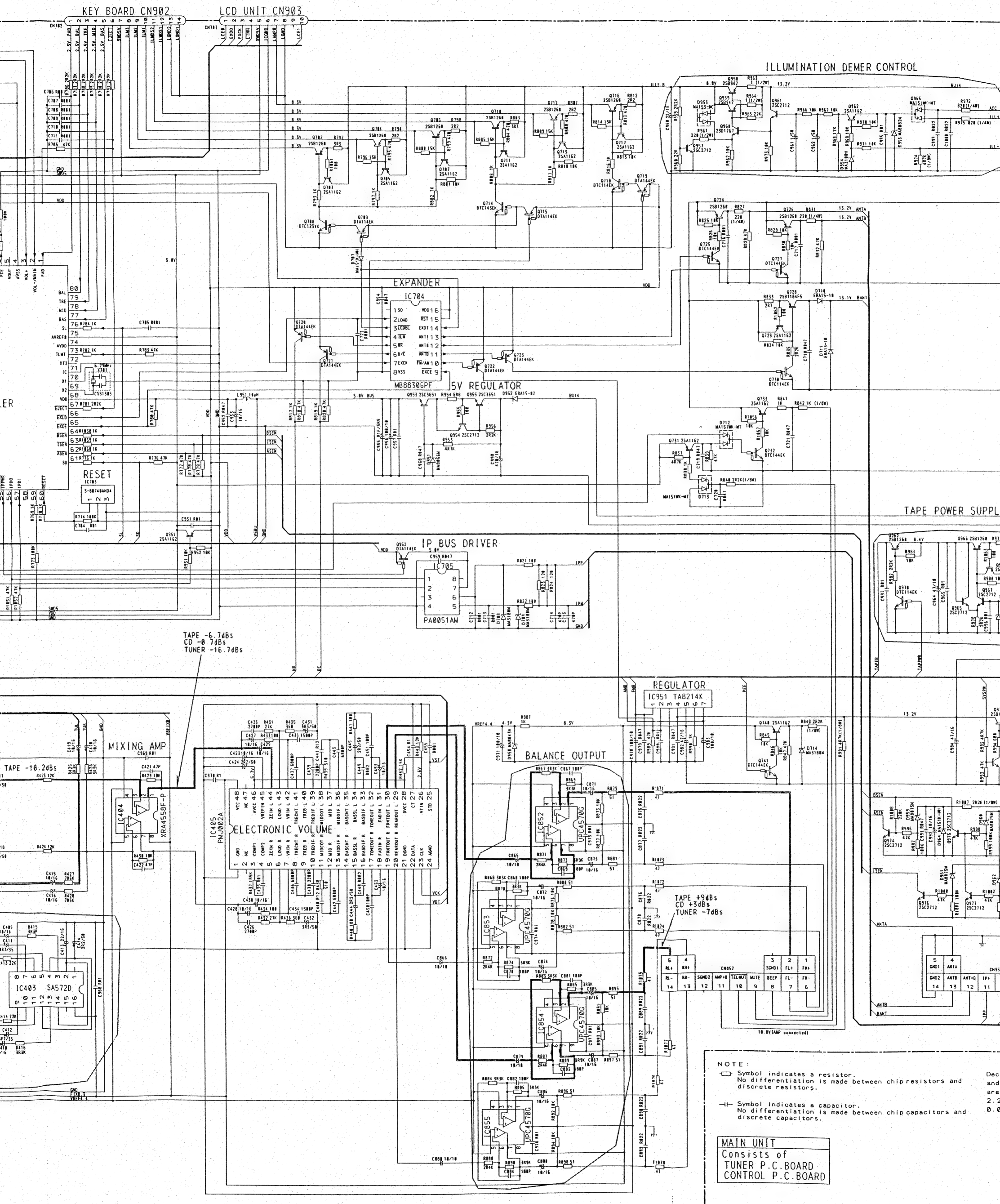
### ● Connection Diagram



● Circuit Diagram





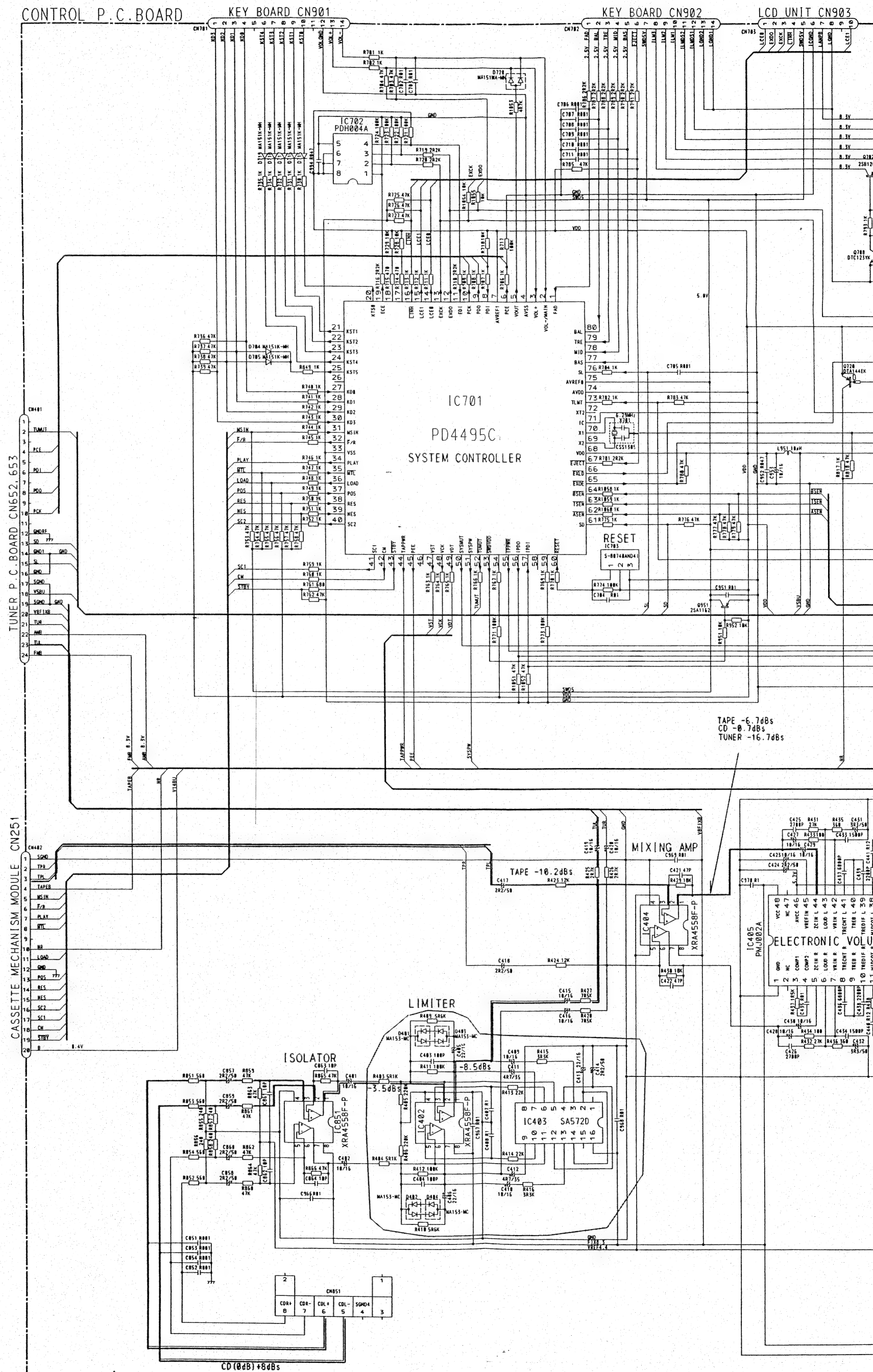


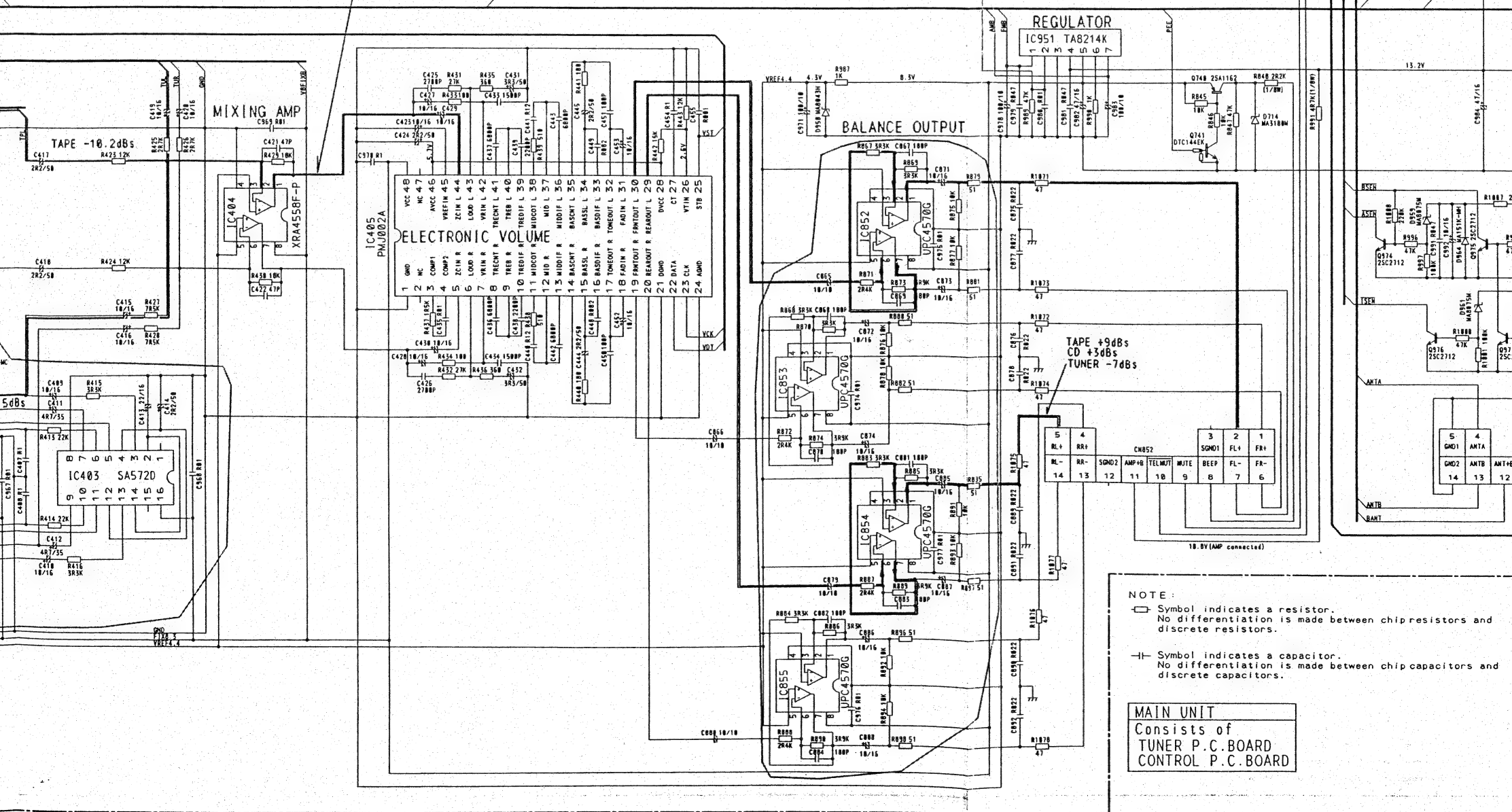
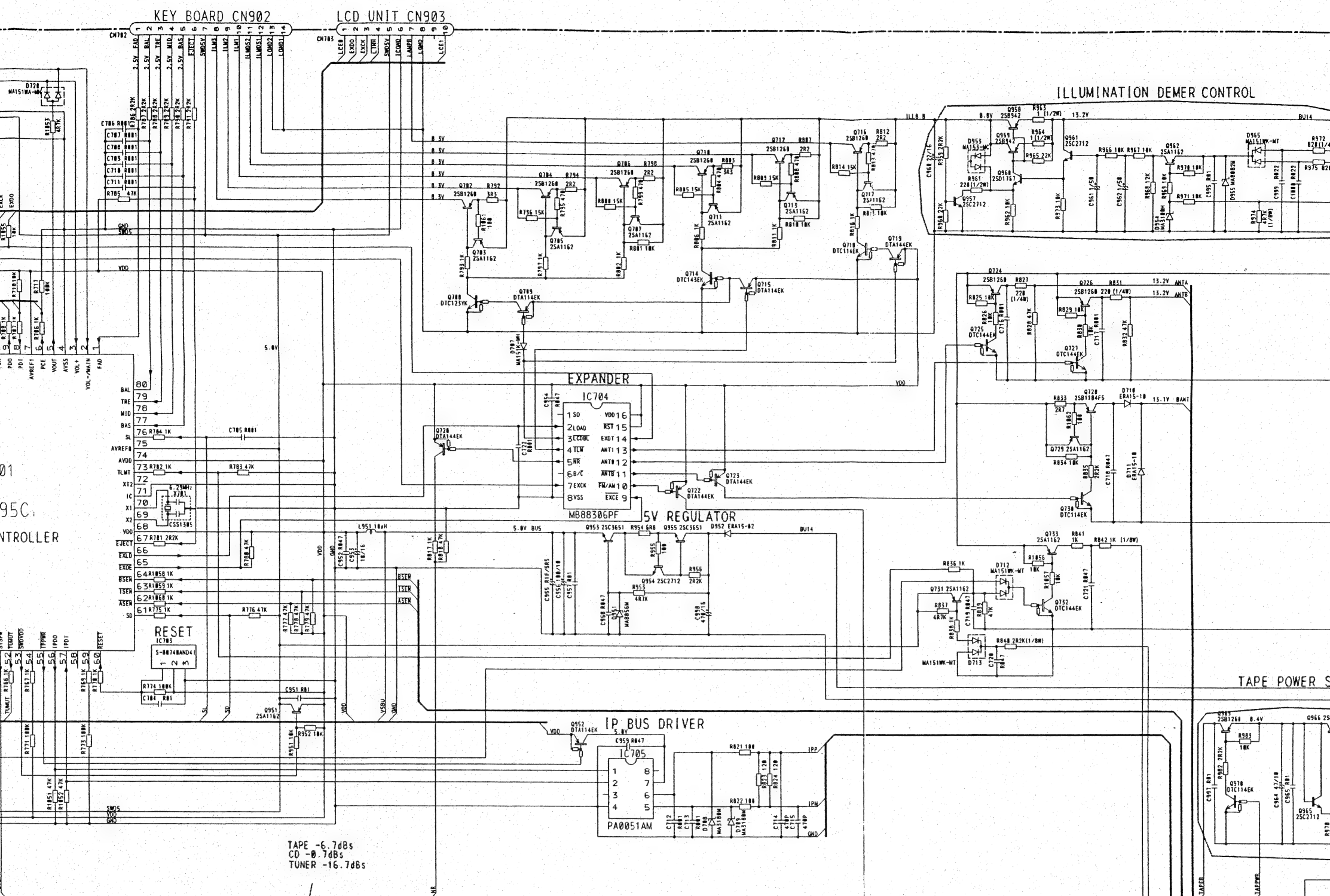




### 4.3 CONTROL P.C.BOARD(KEX-P8256ZT/AU)

#### ● Circuit Diagram







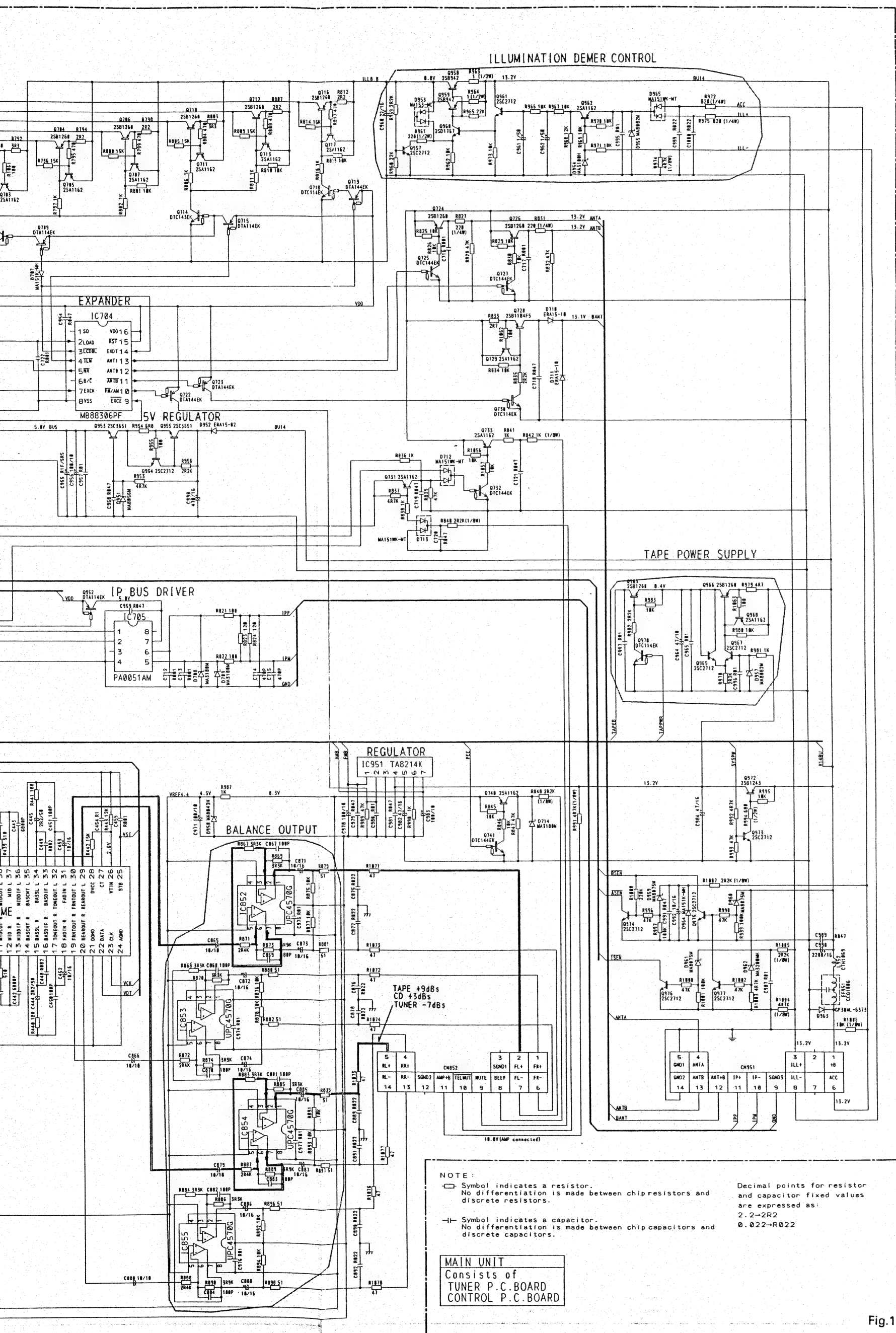


Fig.11

● Connection Diagram

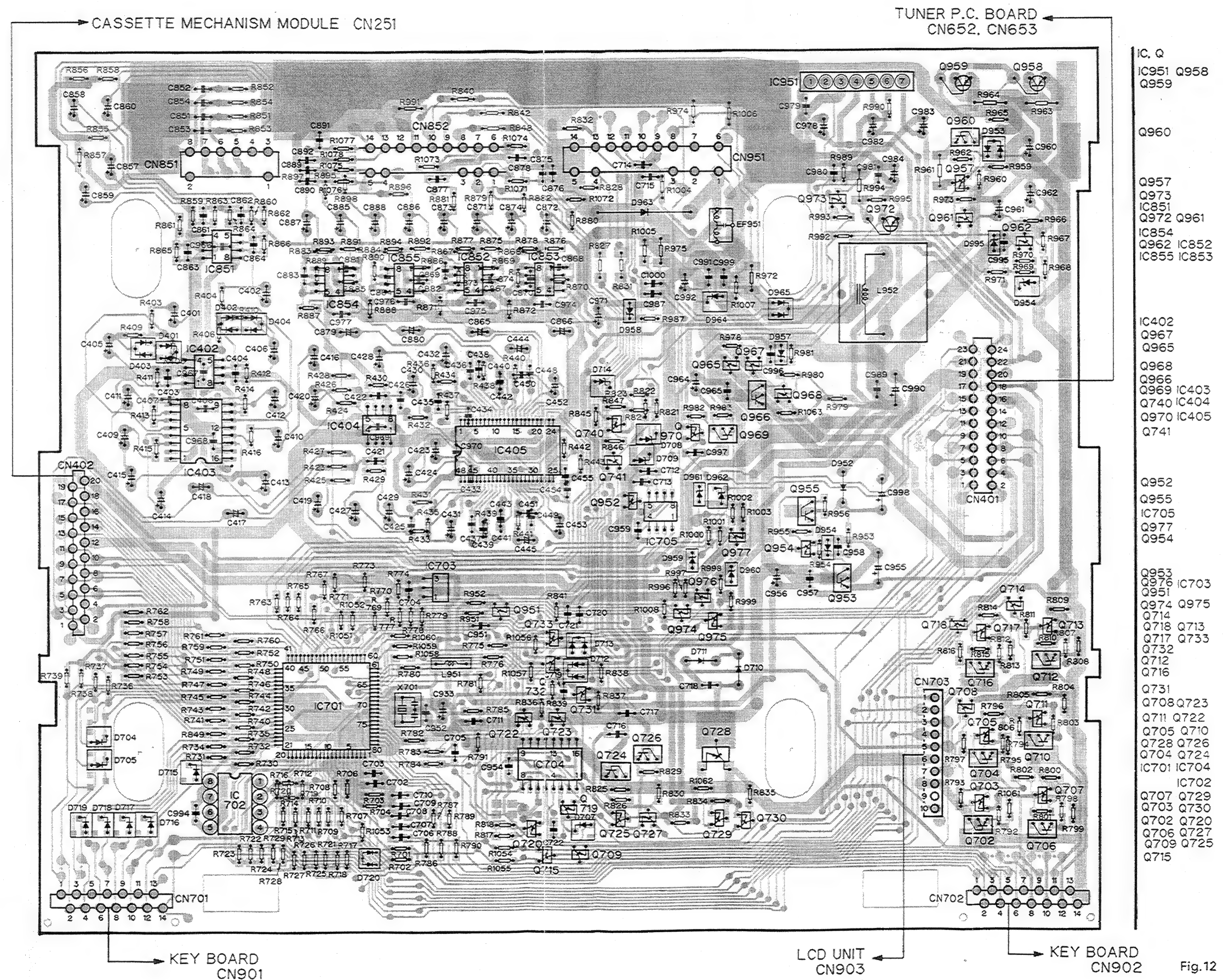


Fig.12



# 4.4 CONTROL P.C.BOARD(KEX-P8256ZT/ES)

## ● Connection Diagram

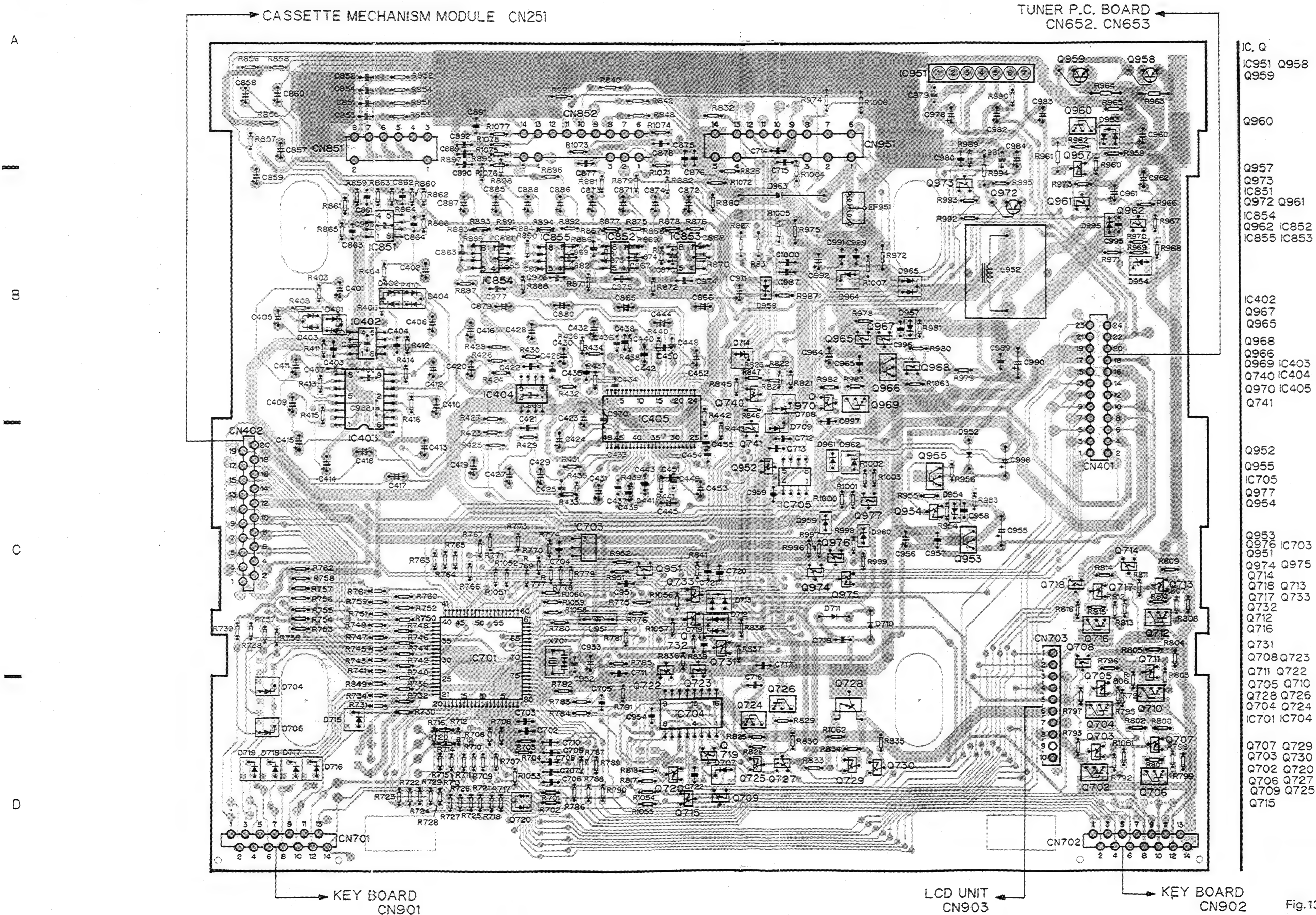
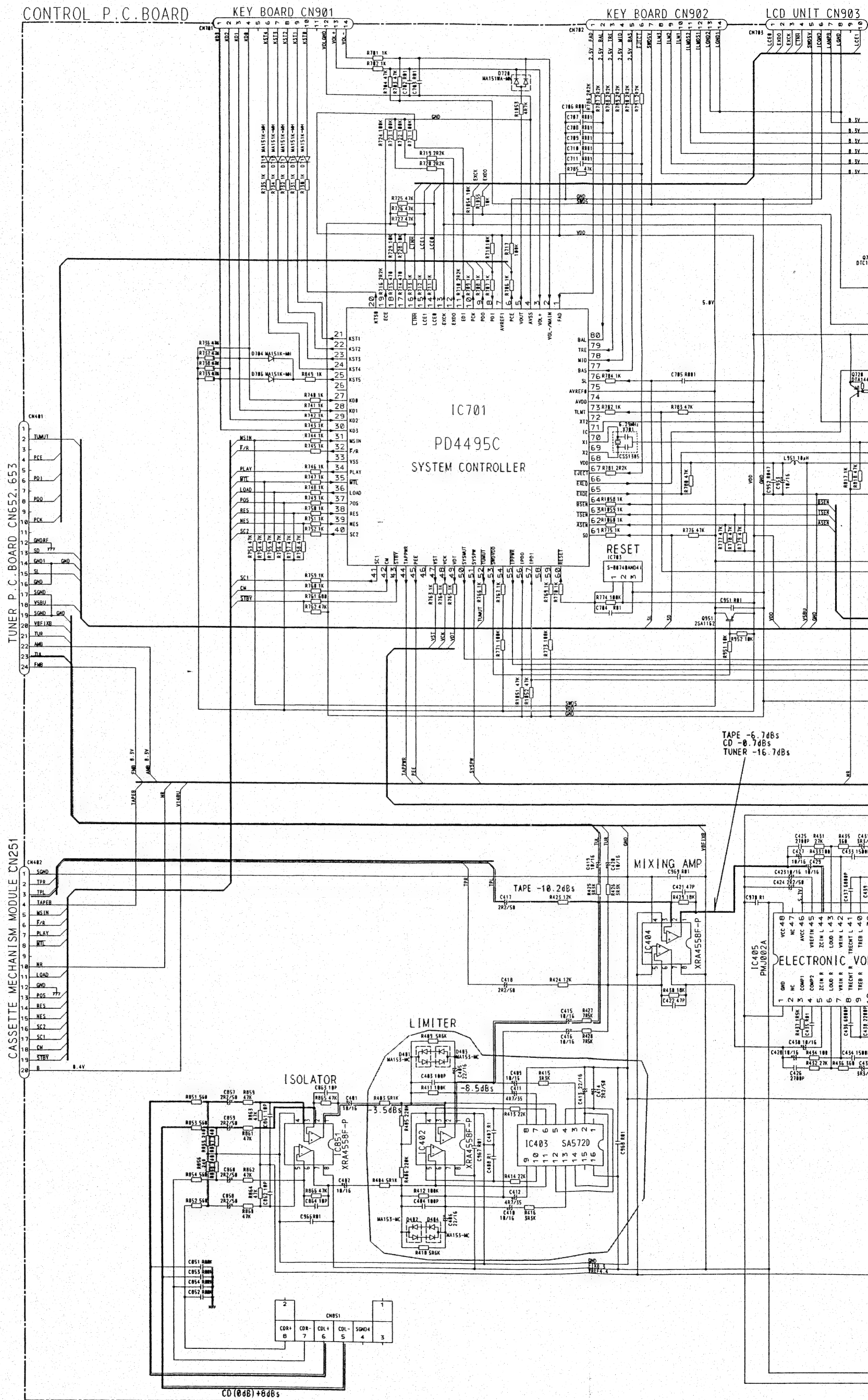
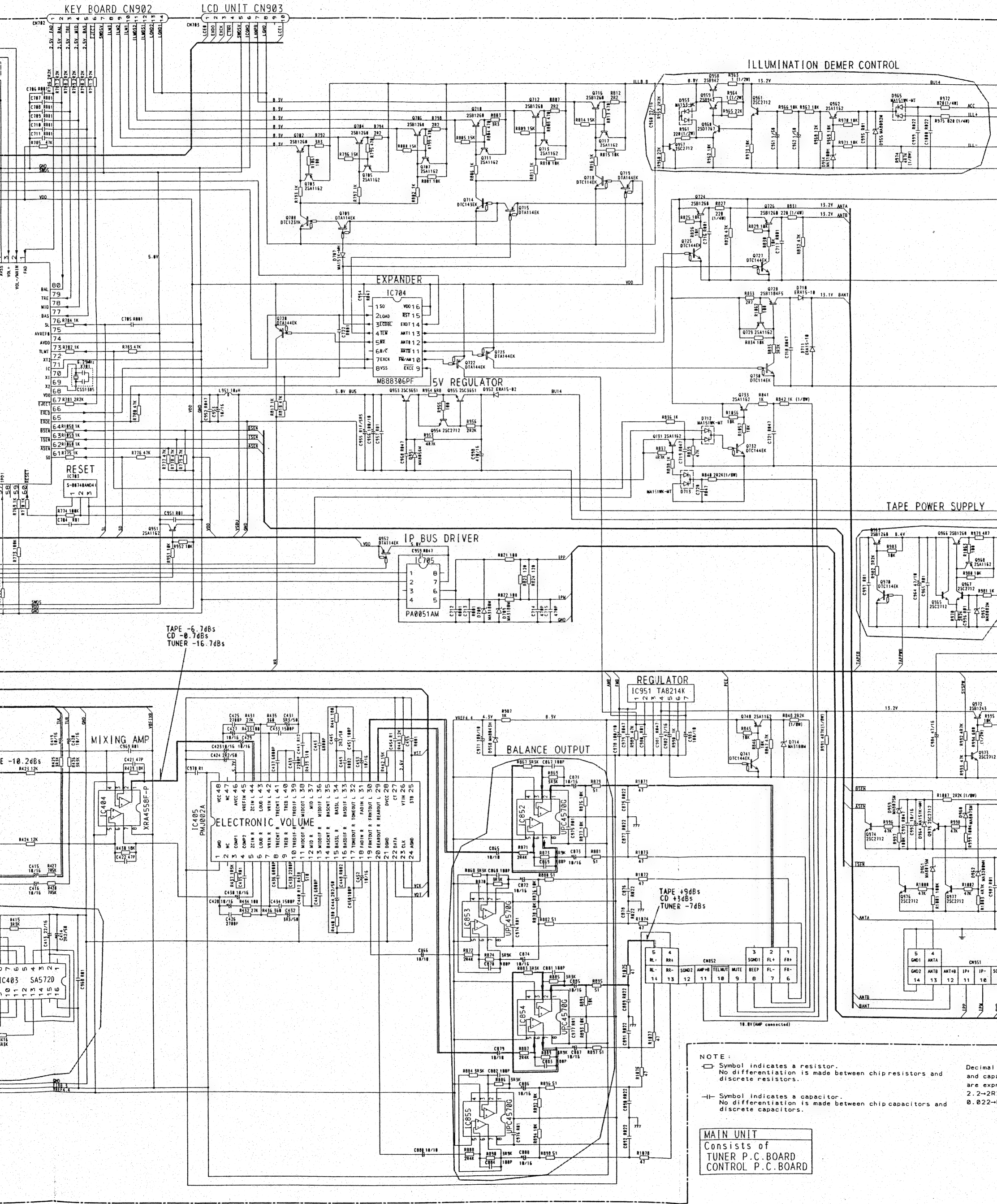


Fig.13

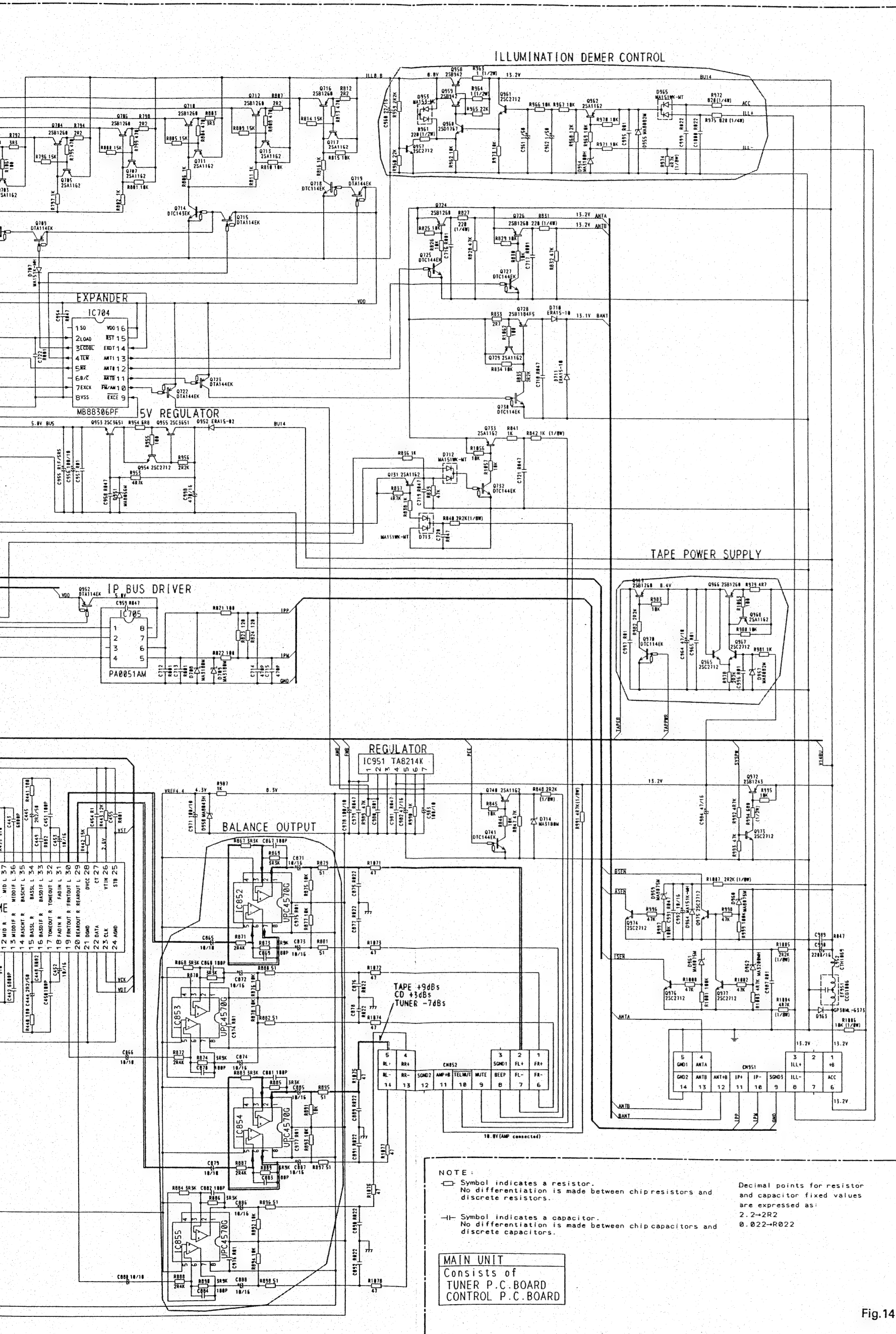
● Circuit Diagram















## 4.6 TUNER P.C.BOARD(KEX-P8256ZT/EW,KEX-P8156ZT/EW)

## ● Circuit Diagram

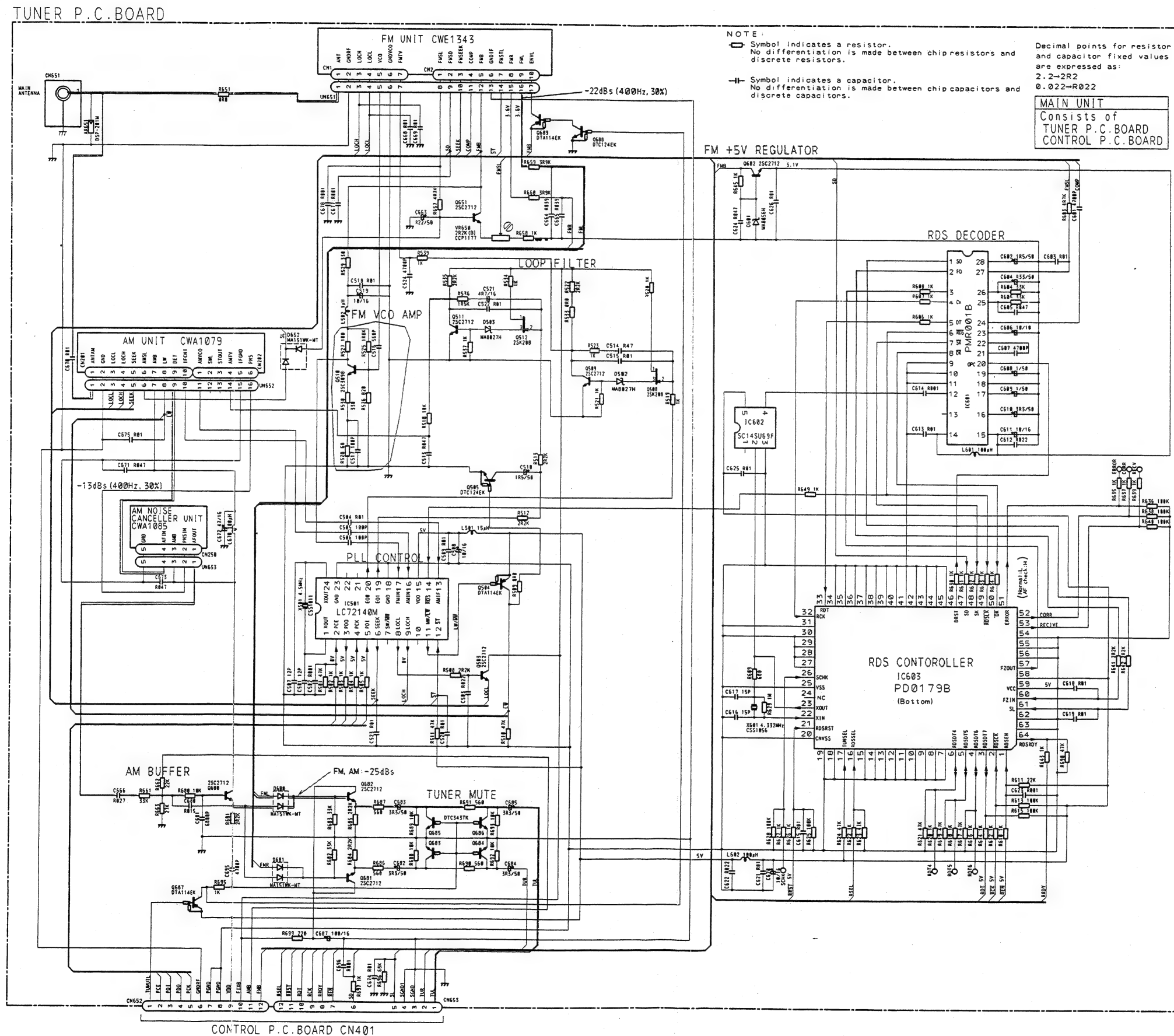
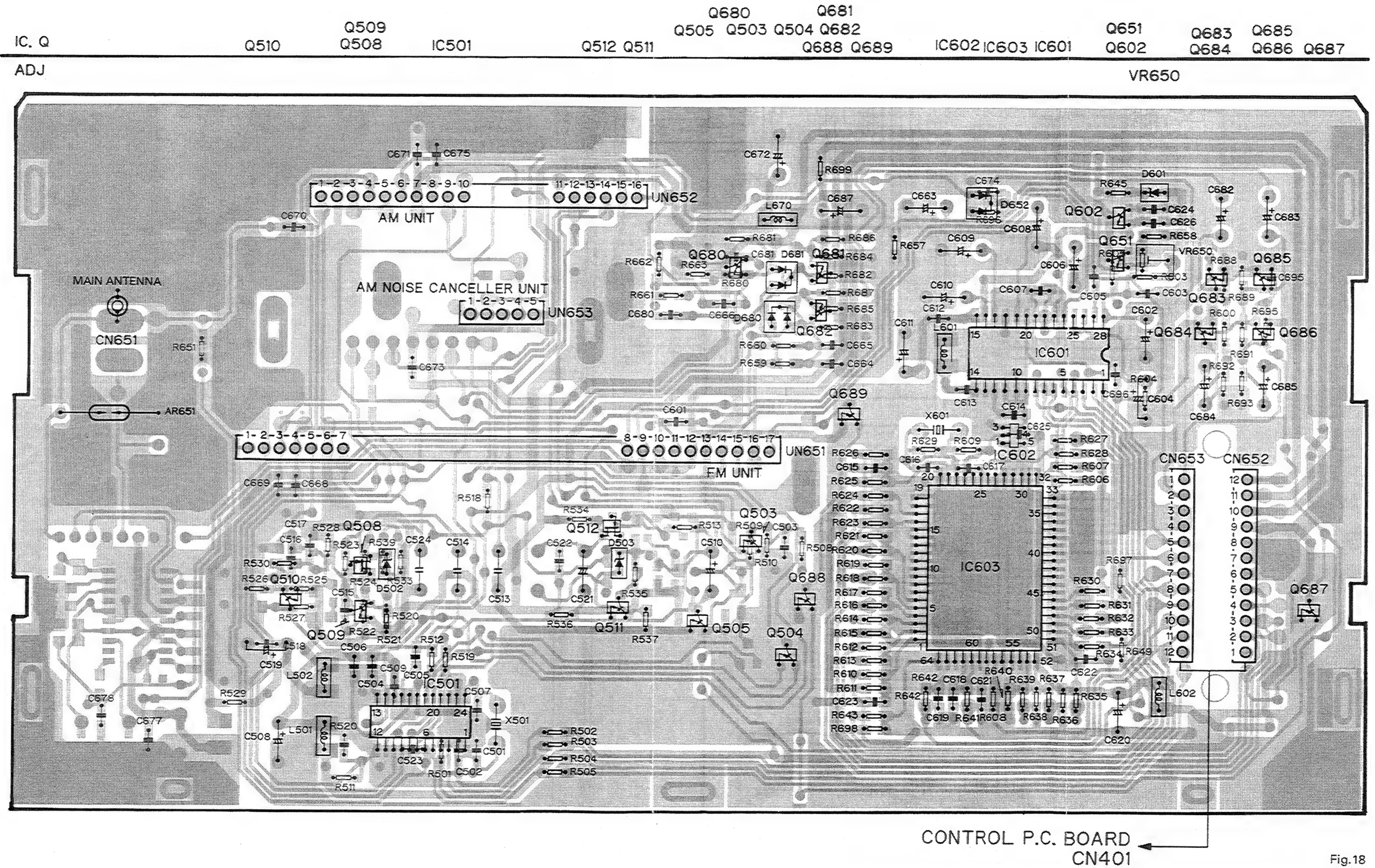


Fig.17

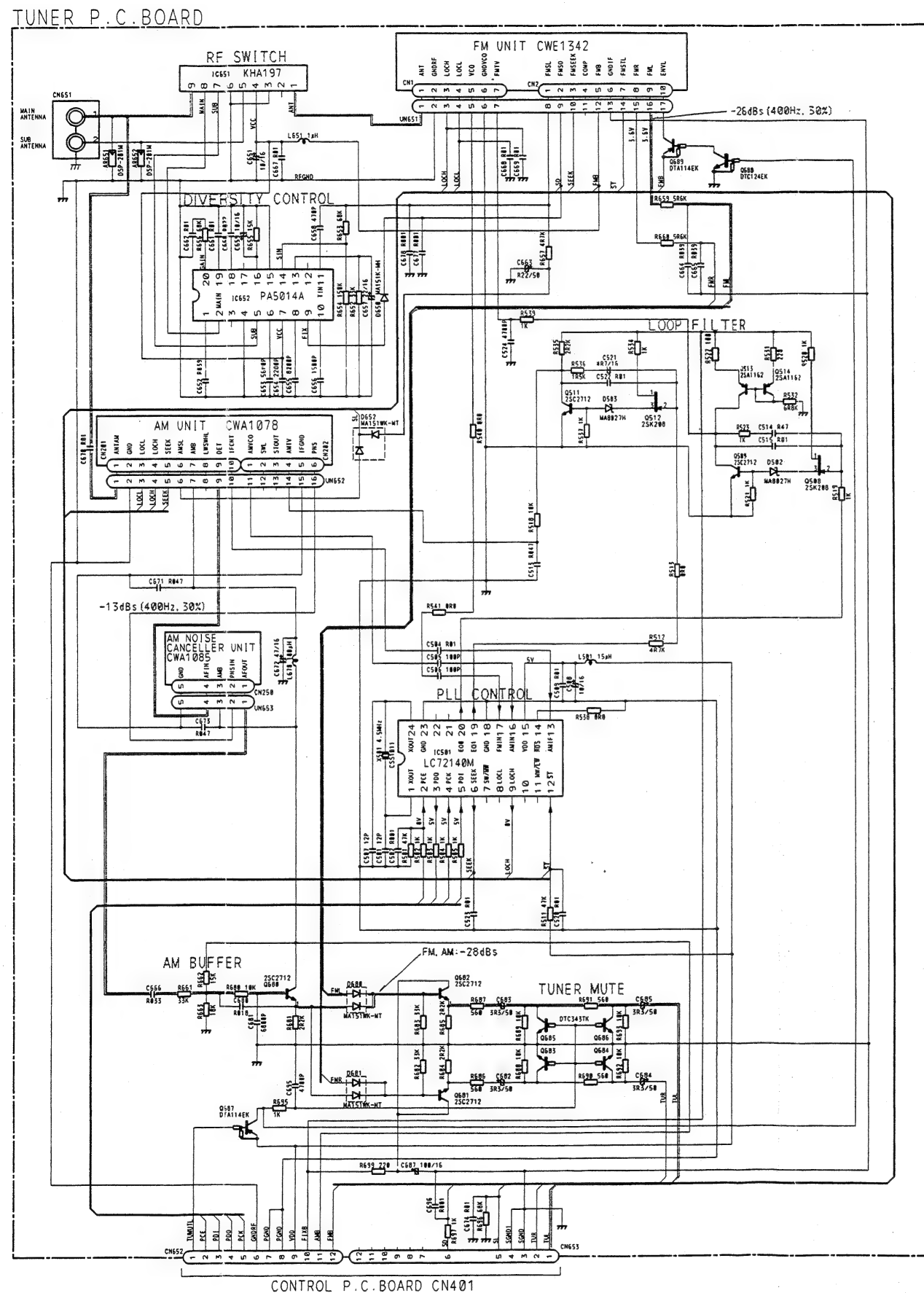
● Connection Diagram





4.7 TUNER P.C.BOARD(KEX-P8156ZT/UC)

● Circuit Diagram



NOTE

□ Symbol indicates a resistor.  
No differentiation is made between chip resistors and discrete resistors.

□ Symbol indicates a capacitor.  
No differentiation is made between chip capacitors and discrete capacitors.

Decimal points for resistor and capacitor fixed values are expressed as:  
2.2-2R2  
0.022-R022

MAIN UNIT  
Consists of  
TUNER P.C. BOARD  
CONTROL P.C. BOARD

Fig.19

### ● Connection Diagram

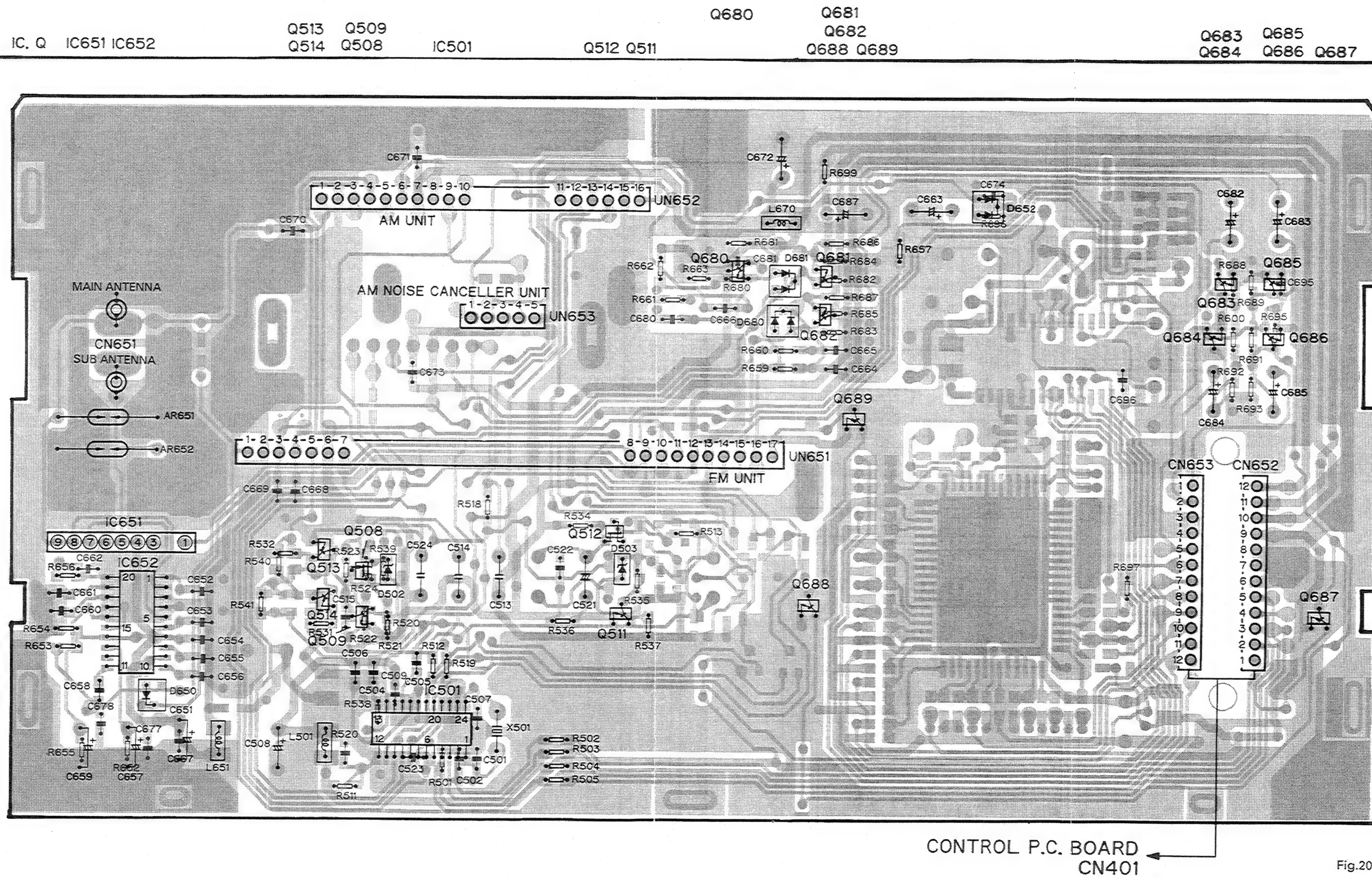
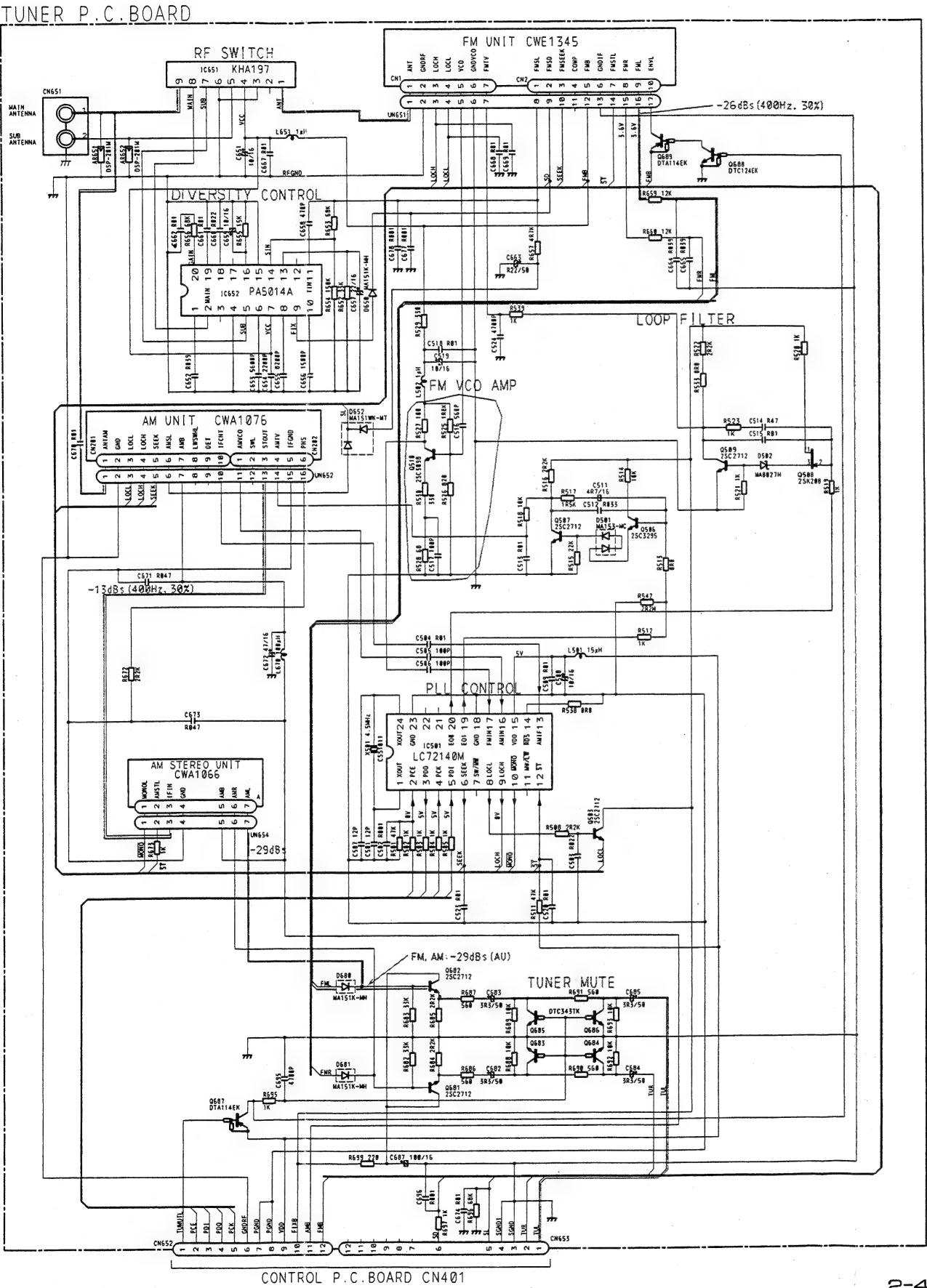


Fig.20



4.8 TUNER P.C.BOARD(KEX-P8256ZT/AU)

● Circuit Diagram



NOTE

□ Symbol indicates a resistor.  
No differentiation is made between chip resistors and discrete resistors.

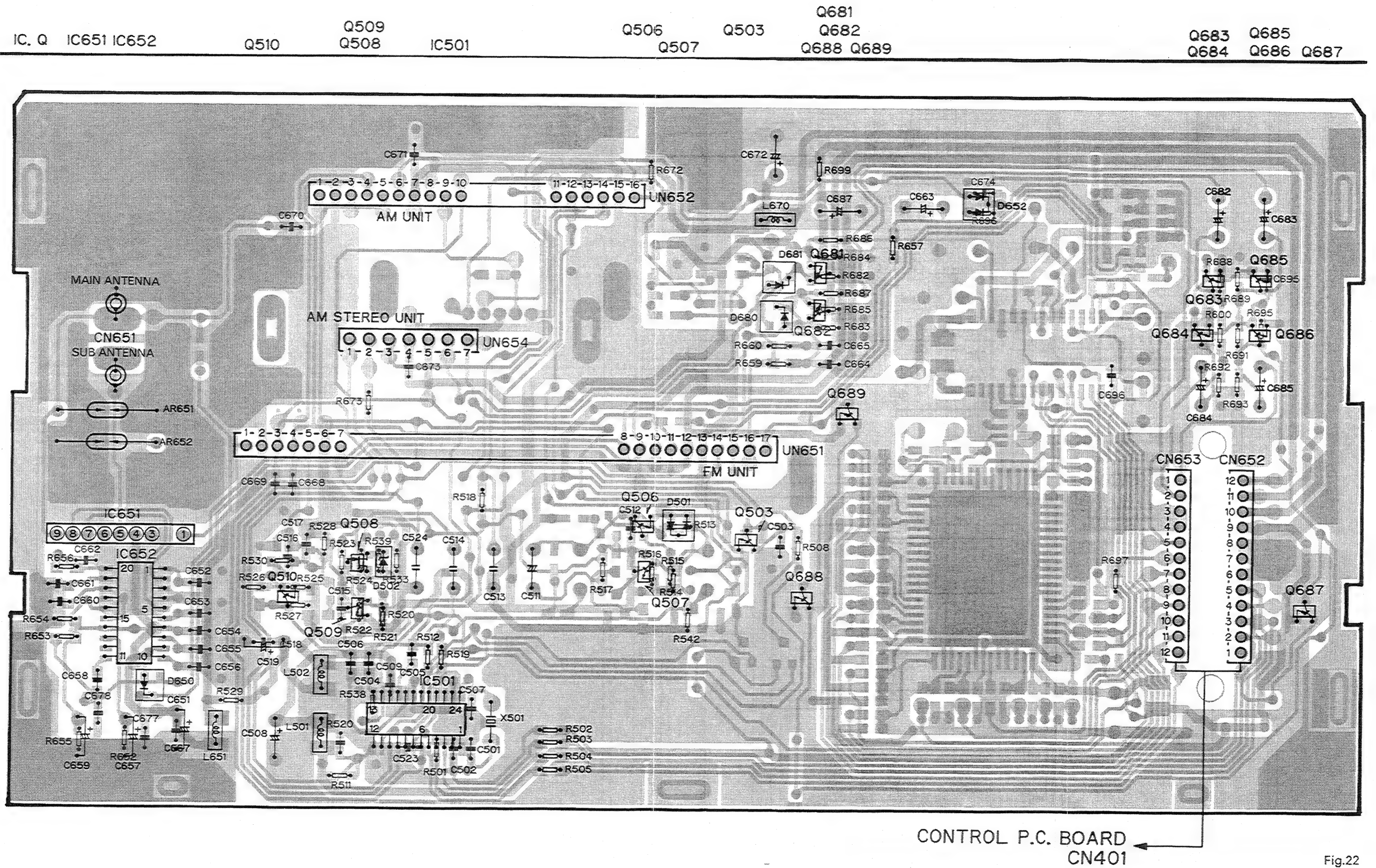
—||— Symbol indicates a capacitor.  
No differentiation is made between chip capacitors and discrete capacitors.

Decimal points for resistor and capacitor fixed values are expressed as:  
2.2—2R2  
0.022—R022

MAIN UNIT  
Consists of  
TUNER P.C. BOARD  
CONTROL P.C. BOARD

Fig.21

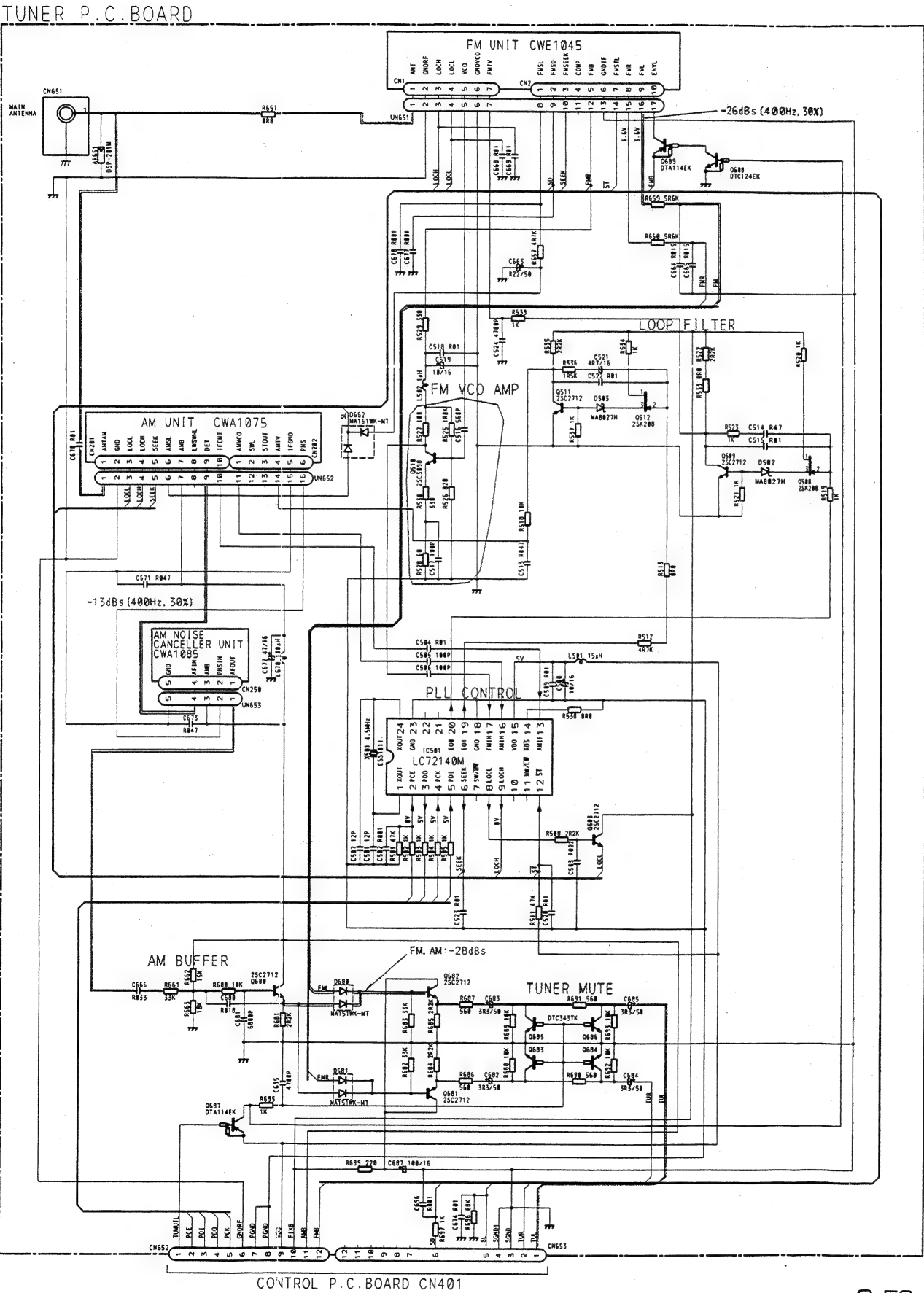
● Connection Diagram





4.9 TUNER P.C.BOARD(KEX-P8256ZT/ES)

● Circuit Diagram



NOTE

- Symbol indicates a resistor.  
No differentiation is made between chip resistors and discrete resistors.
- ||— Symbol indicates a capacitor.  
No differentiation is made between chip capacitors and discrete capacitors.

Decimal points for resistor and capacitor fixed values are expressed as:  
2.2—2R2  
0.022—R022

MAIN UNIT  
Consists of  
TUNER P.C. BOARD  
CONTROL P.C. BOARD

Fig.23

### ● Connection Diagram

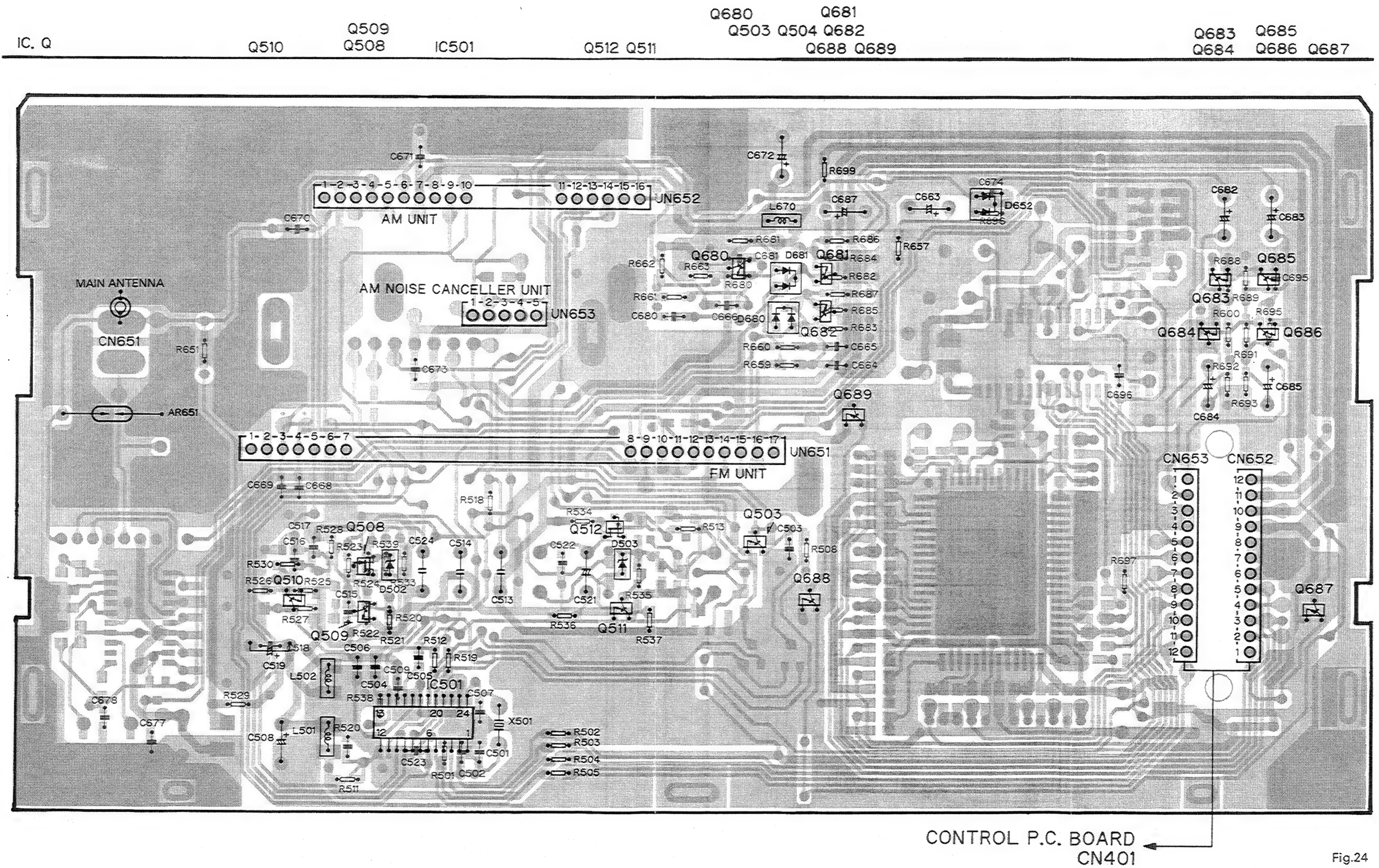
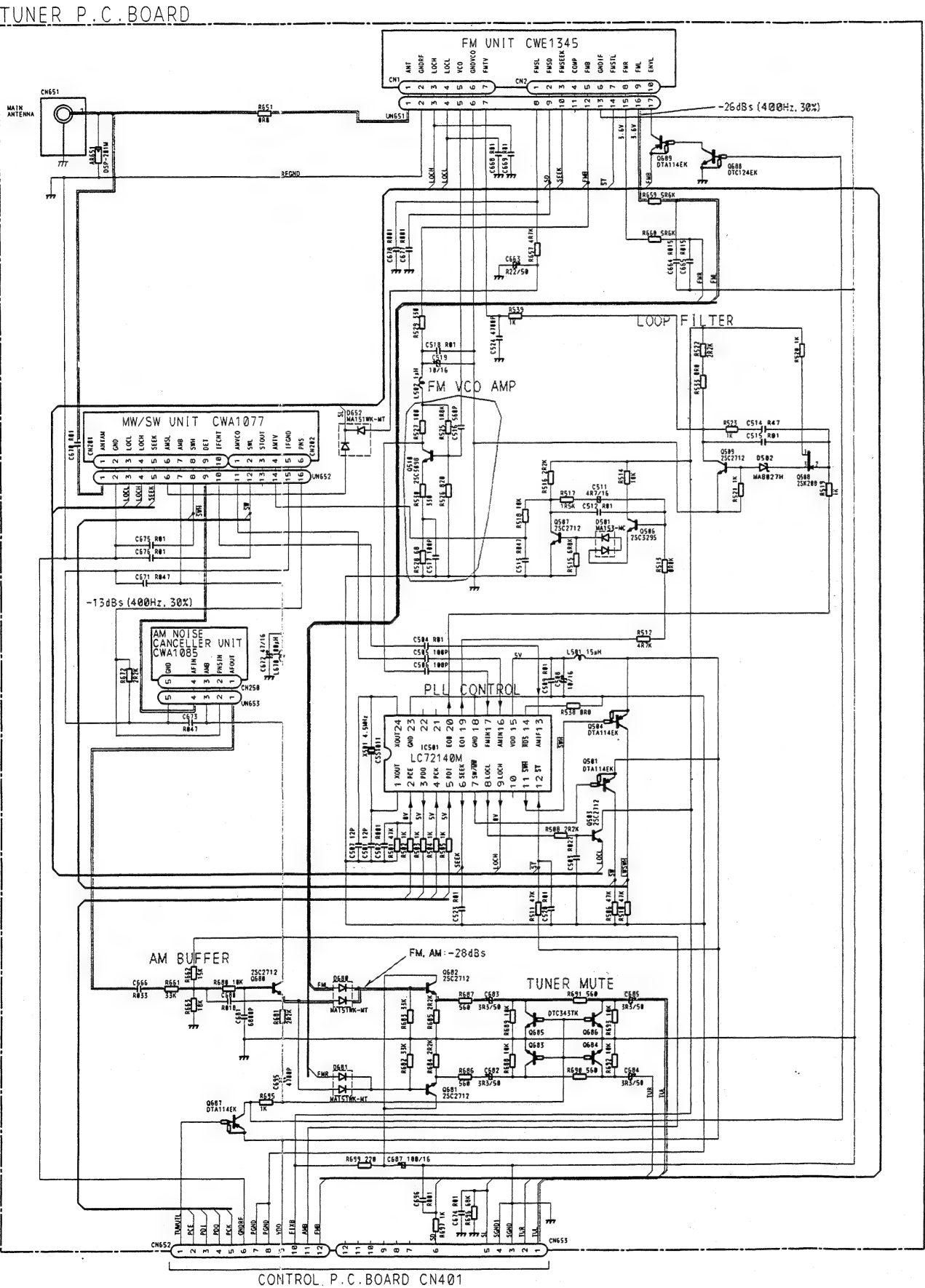


Fig.24



4.10 TUNER P.C.BOARD(KEX-P8156ZT/ES)

● Circuit Diagram



NOTE

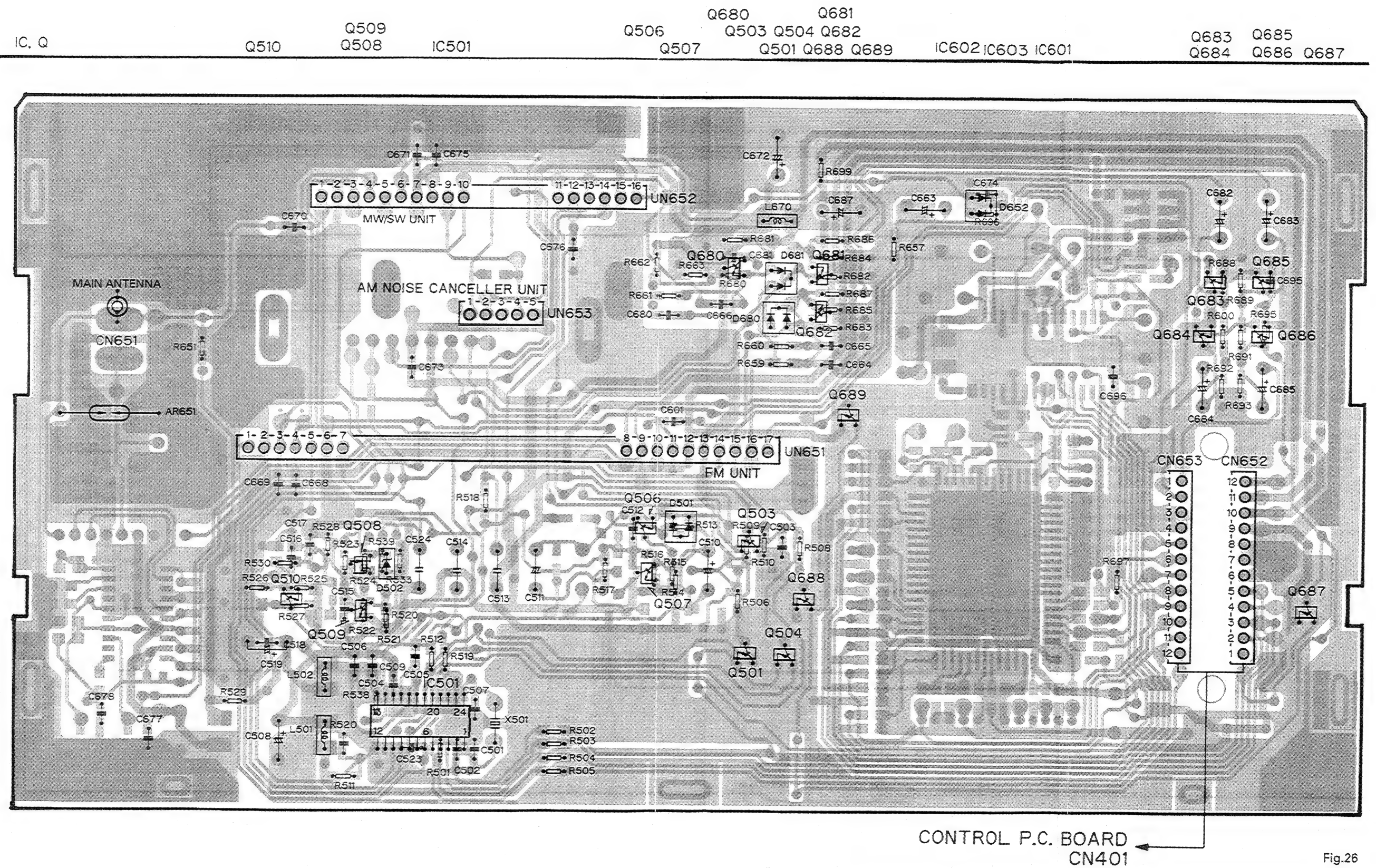
- Symbol indicates a resistor. No differentiation is made between chip resistors and discrete resistors.
- ⊢ Symbol indicates a capacitor. No differentiation is made between chip capacitors and discrete capacitors.

Decimal points for resistor and capacitor fixed values are expressed as:  
2.2-2R2  
0.022-R022

MAIN UNIT  
Consists of  
TUNER P.C. BOARD  
CONTROL P.C. BOARD

Fig.25

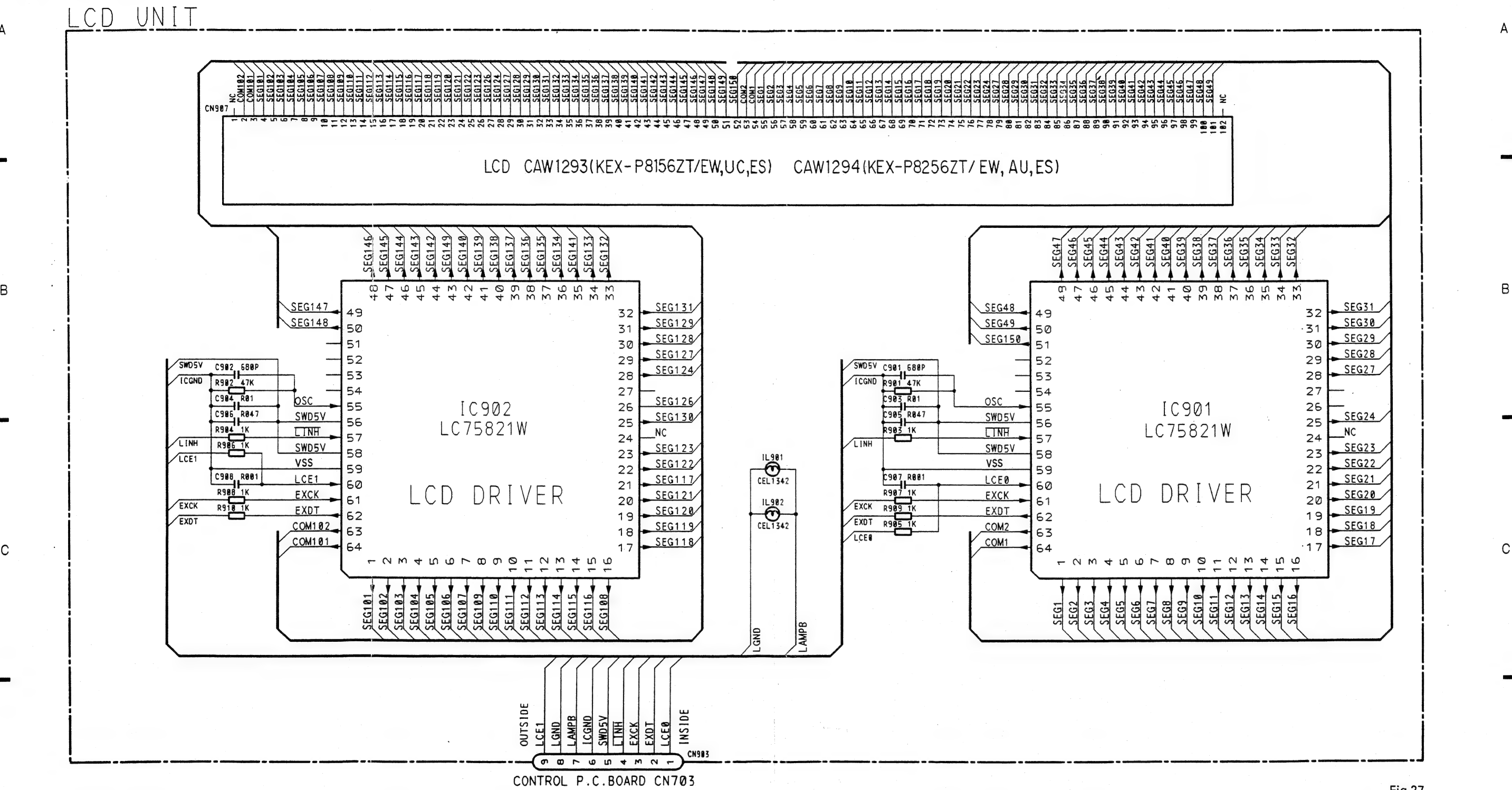
● Connection Diagram



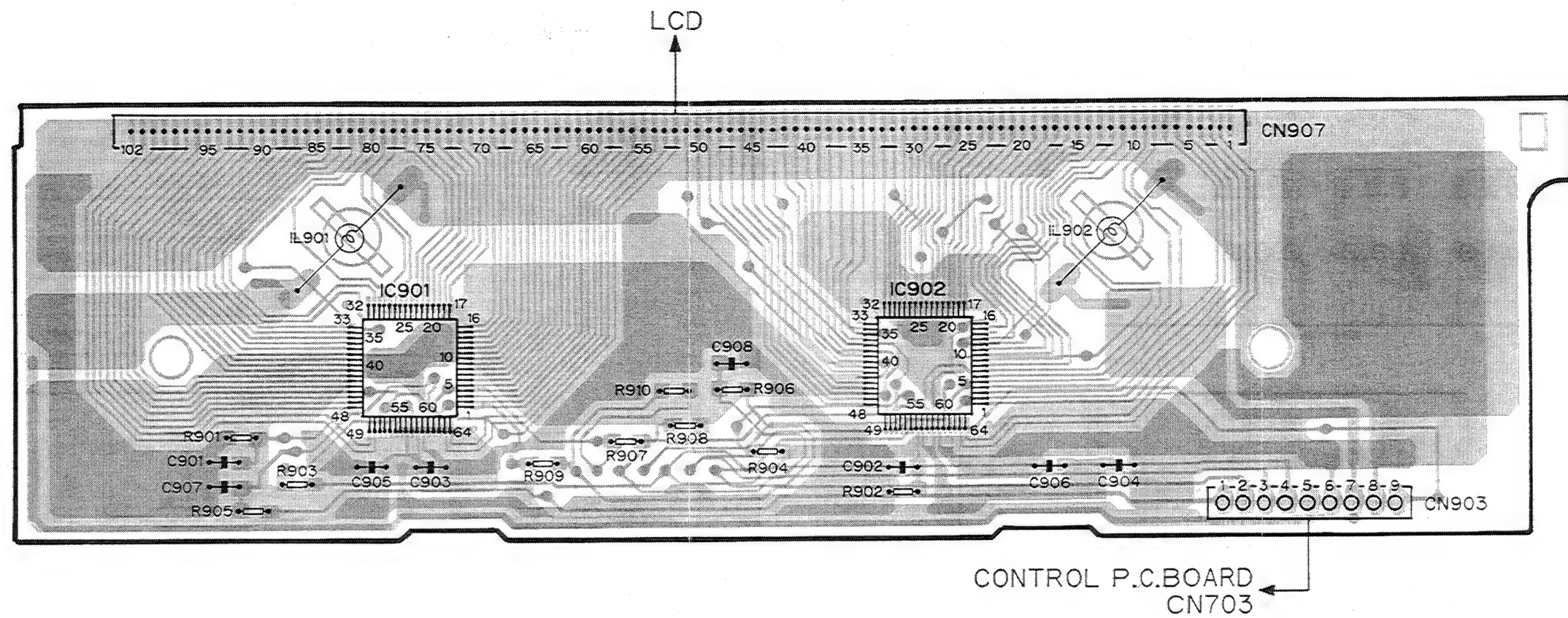


4.11 LCD UNIT

● Circuit Diagram



● Connection Diagram



IC  
IC901  
IC902

Fig.28

4.12 KEY BOARD UNIT

● Circuit Diagram

A

A

KEY BOARD

B

B

C

C

D

D

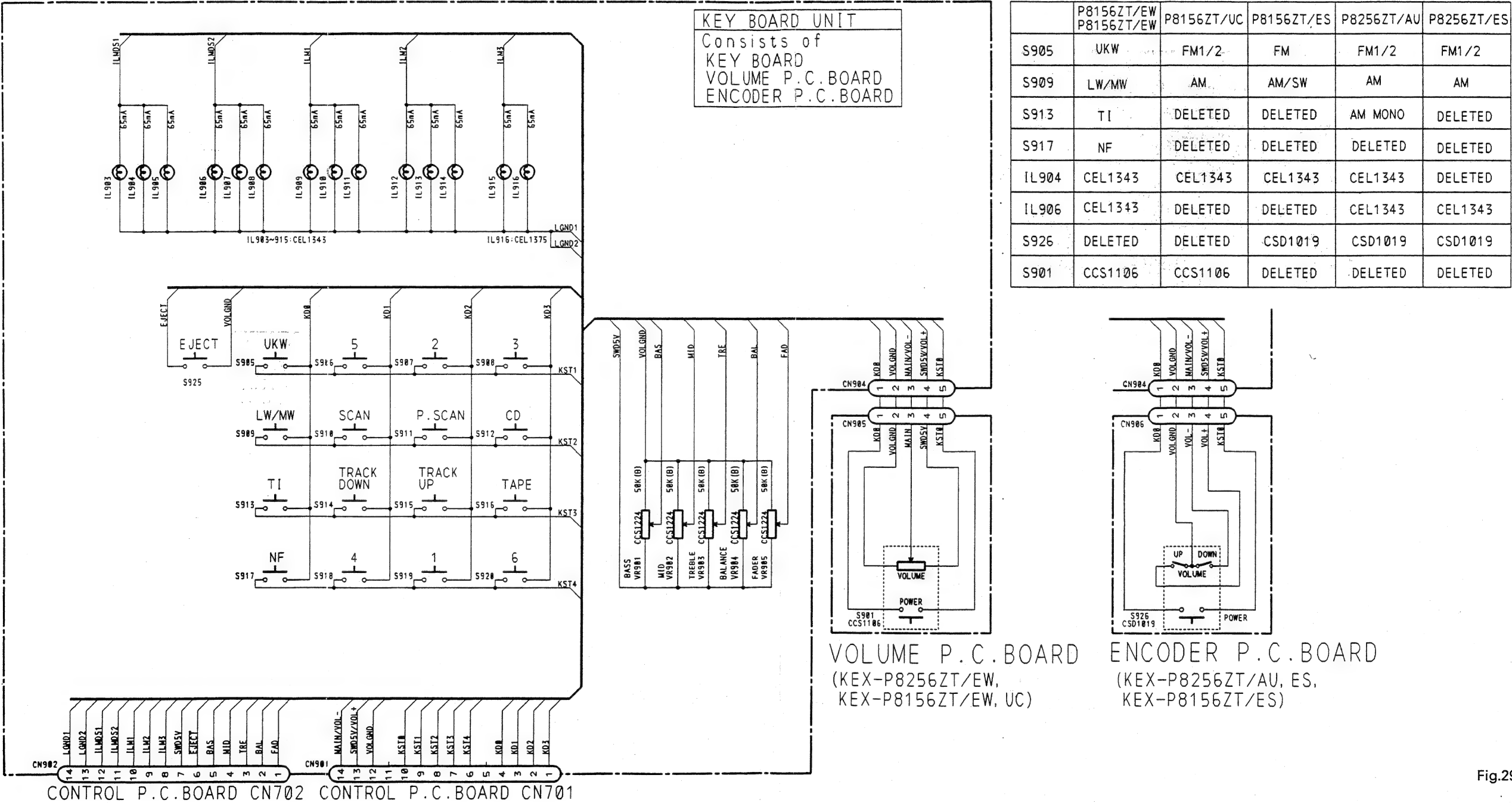
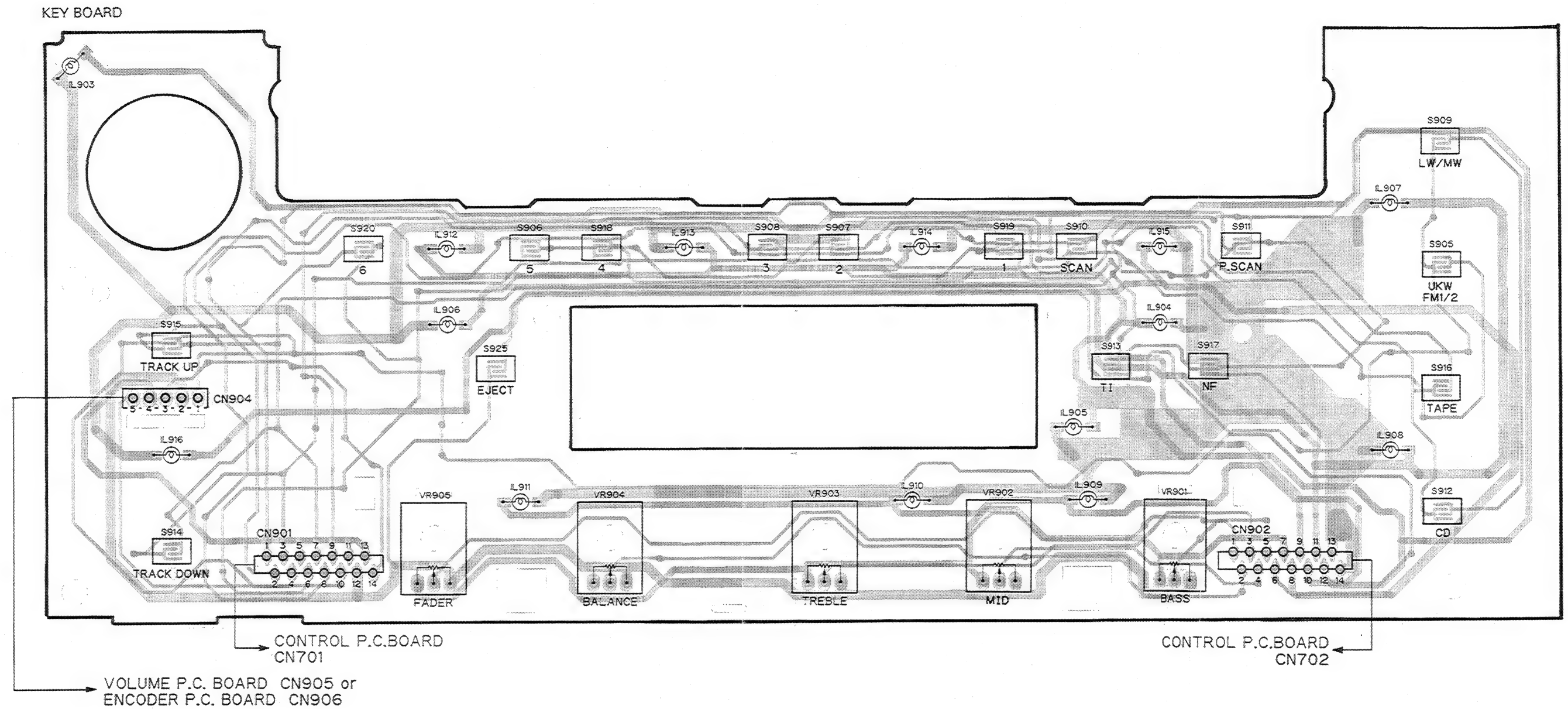
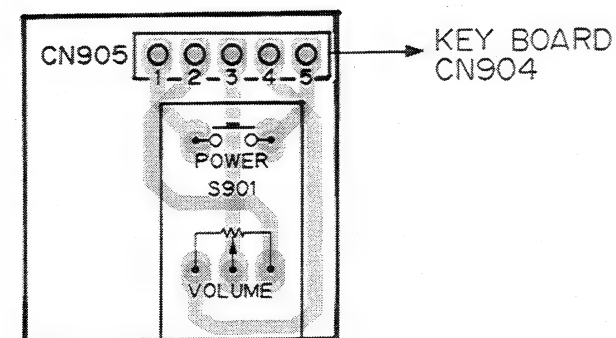


Fig.29

● Connection Diagram(KEX-P8256ZT/EW,AU,ES)



VOLUME P.C.BOARD  
(KEX-P8256ZT/EW)



ENCODER P.C.BOARD  
(KEX-P8256ZT/AU,ES)

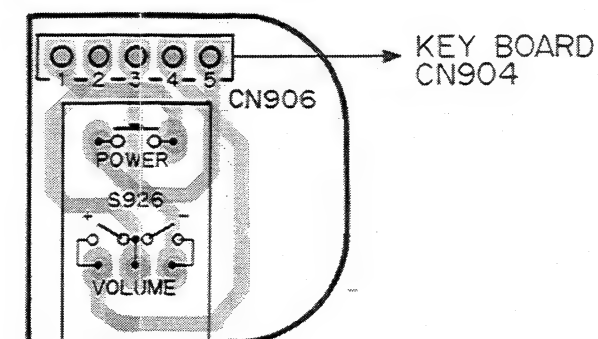


Fig.30



● Connection Diagram(KEX-P8156ZT/EW,UC,ES)

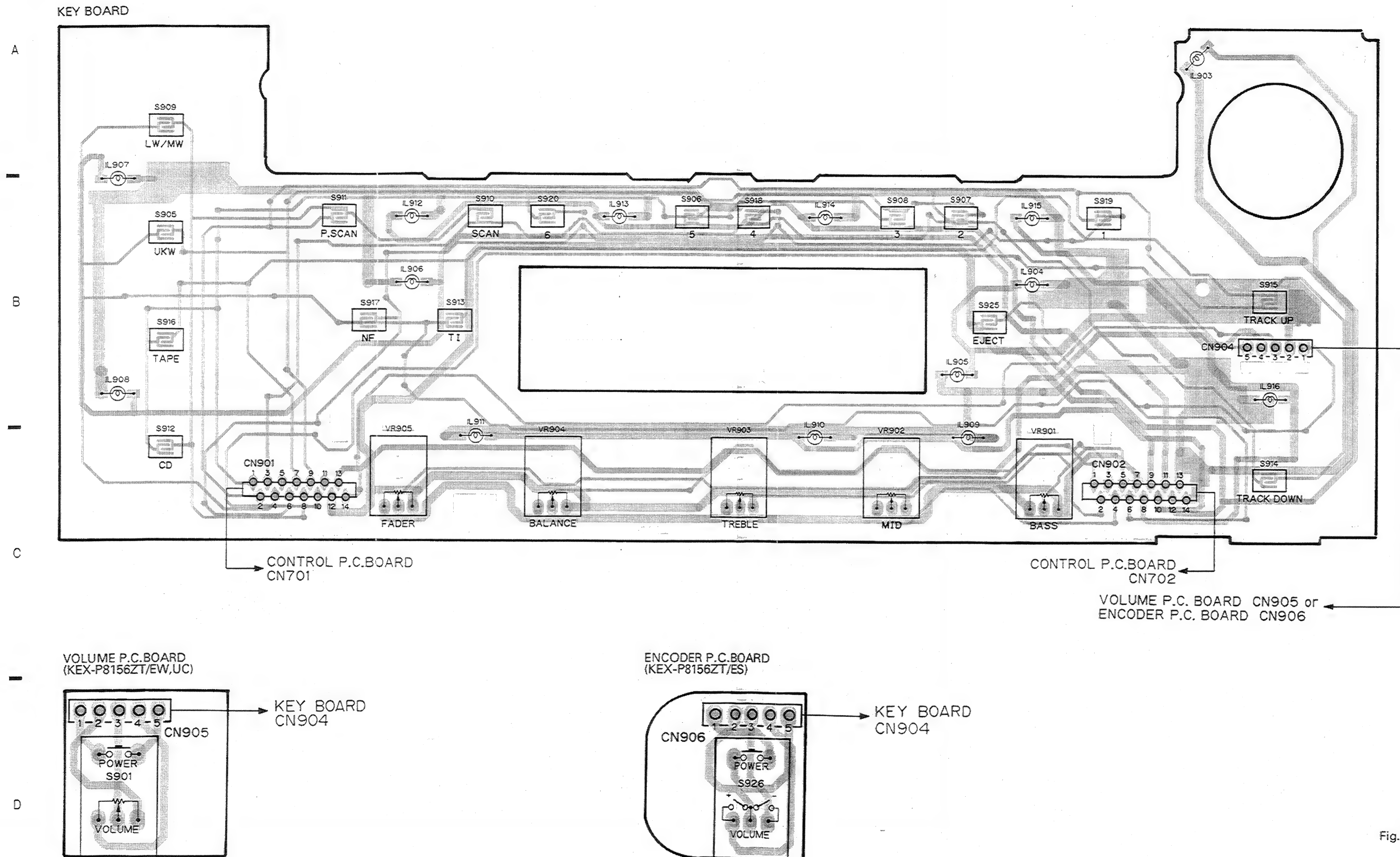


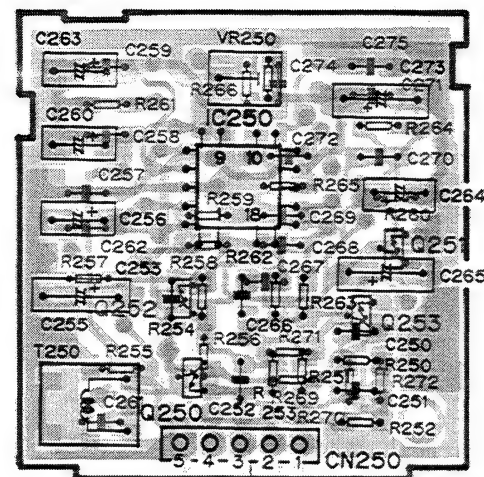
Fig.31

# 4.13 AM NOISE CANCELLER UNIT

● Connection Diagram

● Circuit Diagram

Q252  
IC, Q Q250 IC250 Q253 Q251



TUNER P.C. BOARD

Fig.32

TUNER P.C. BOARD

## AM NOISE CANCELLER UNIT

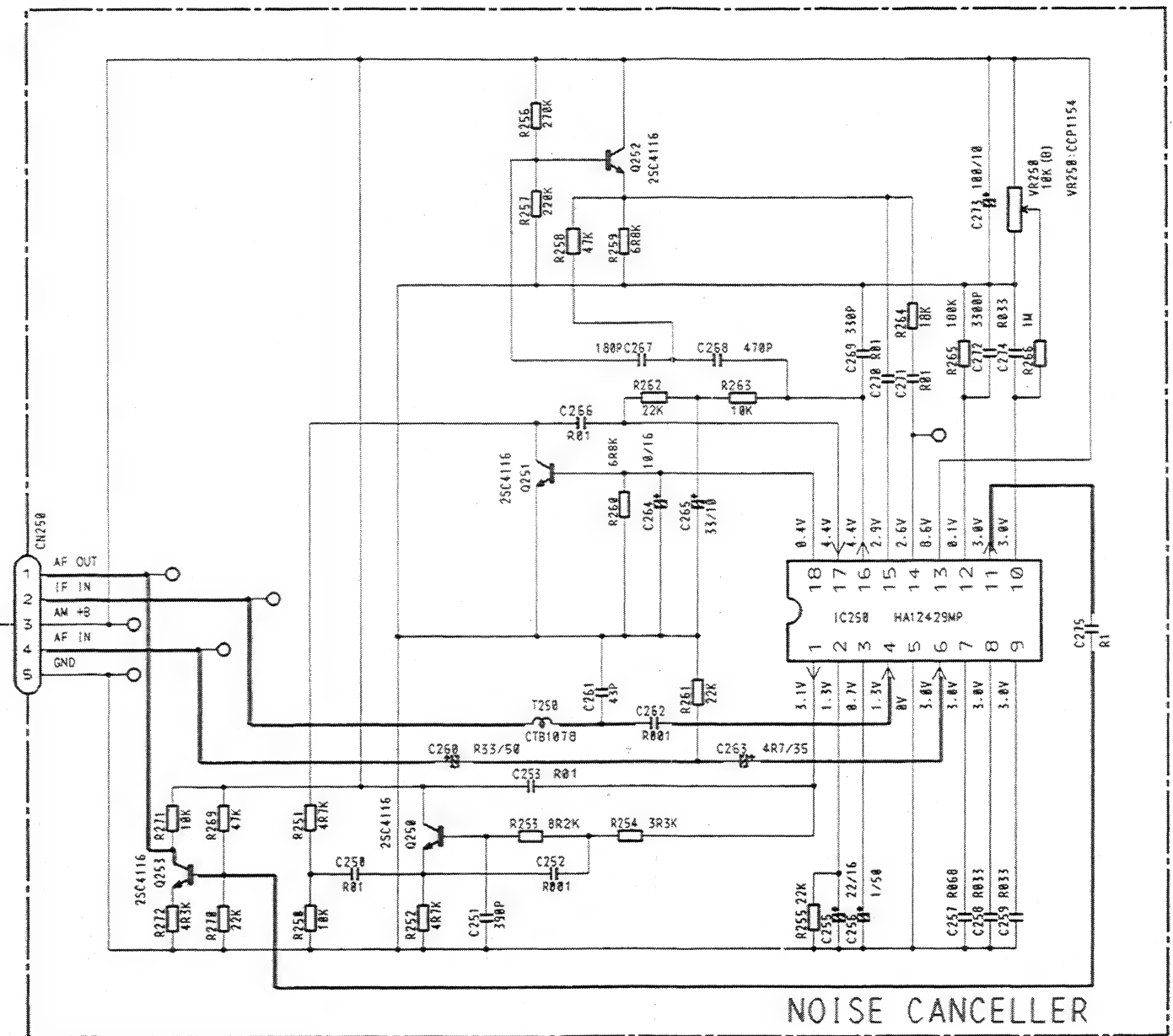
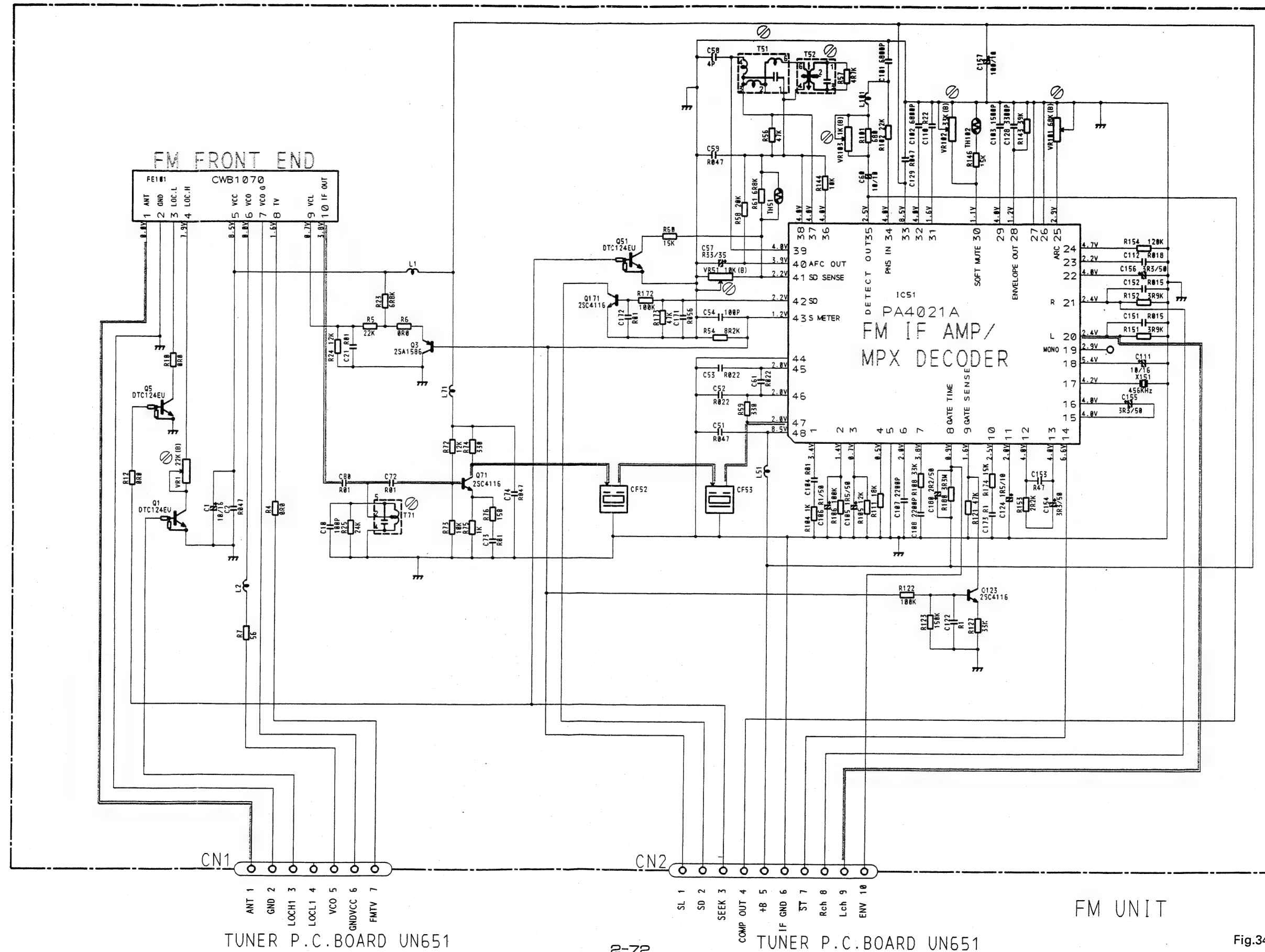


Fig.33

## 4.14 FM UNIT(KEX-P8256ZT/EW,KEX-P8156ZT/EW)

## ● Circuit Diagram



FM UNIT

TUNER P.C. BOARD UN651

TUNER P.C. BOARD UN651

Fig.34

● Connection Diagram

IC. Q	Q1	Q5	Q3	Q71	Q51	Q123
ADJ	VR1			T71	VR51	T51
				T52	VR103	VR102 VR101

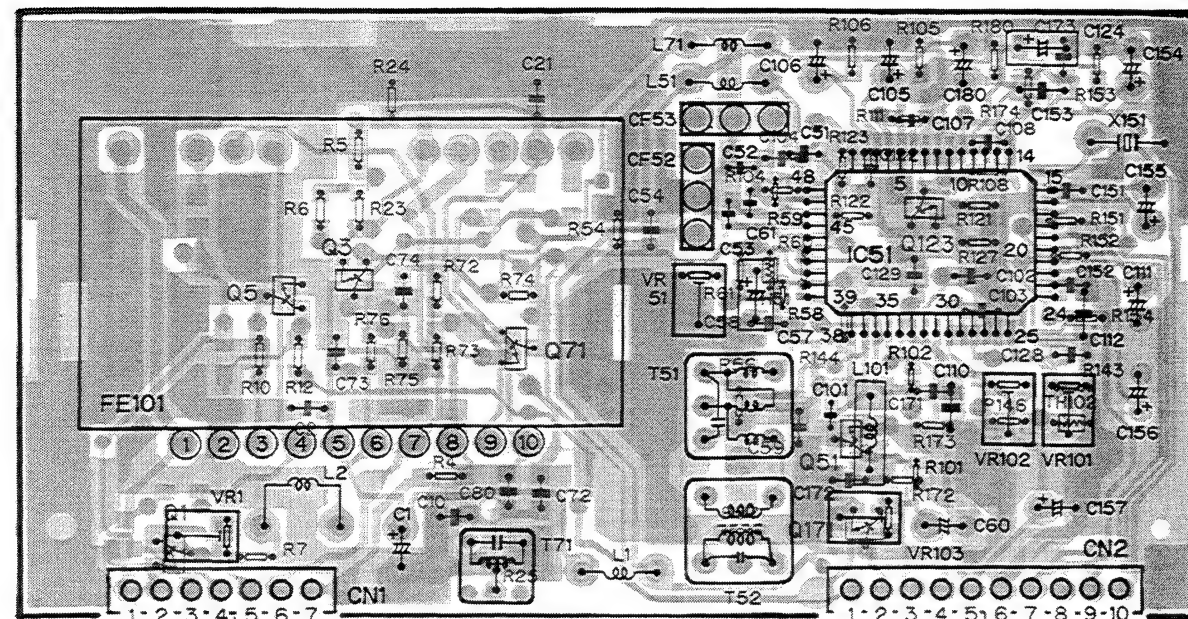


Fig.35

4.15 FM UNIT(KEX-P8156ZT/UC)

● Connection Diagram

IC. Q	Q3	Q51	Q123
ADJ		VR51	T51
		T52	VR103
			VR102 VR101

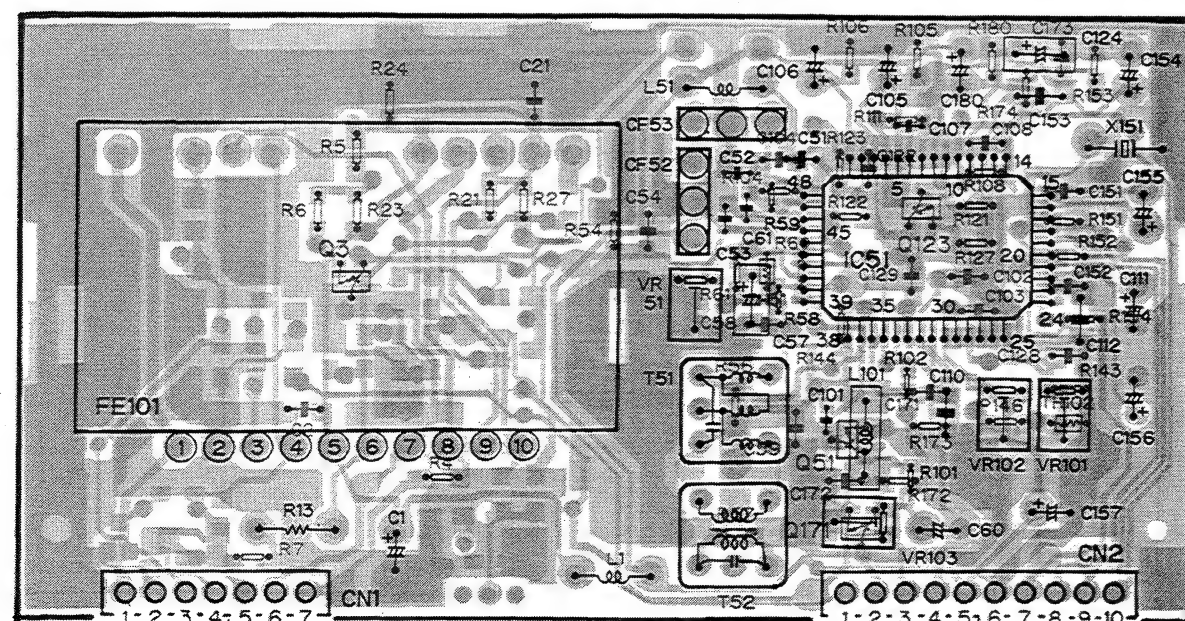


Fig.36



● Circuit Diagram

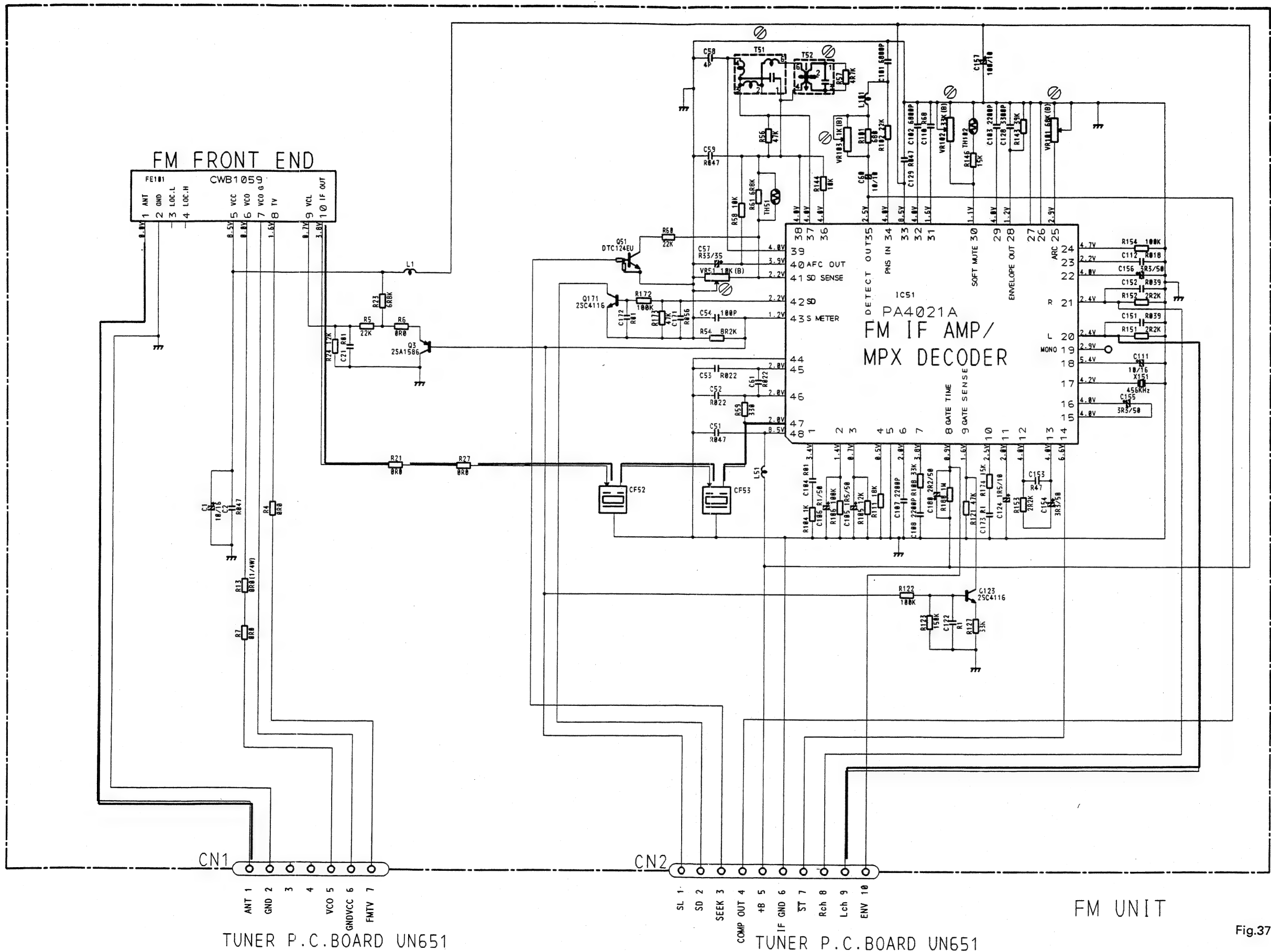


Fig.37



4.16 FM UNIT(KEX-P8256ZT/AU,ES,KEX-P8156ZT/ES)

● Circuit Diagram

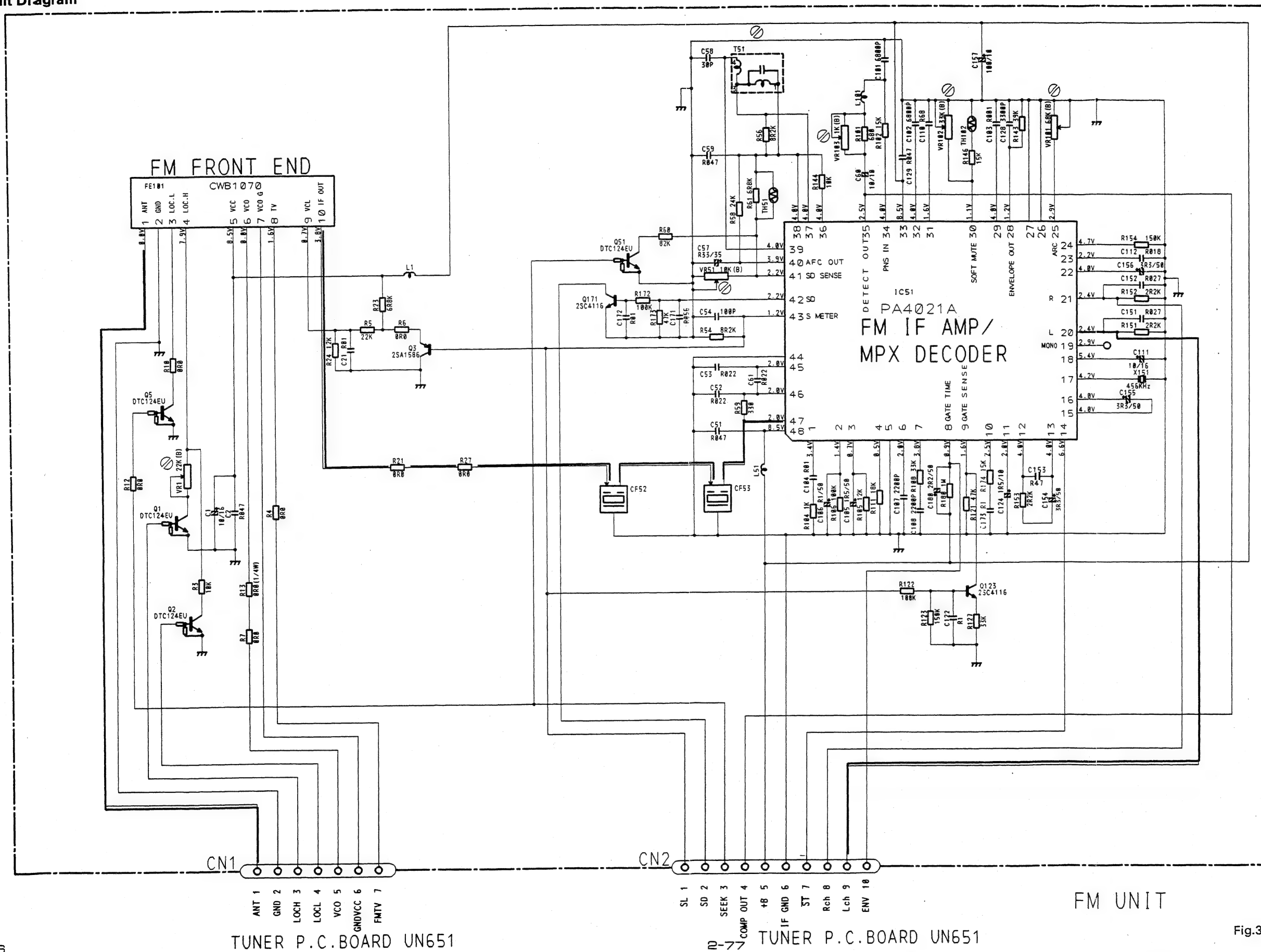
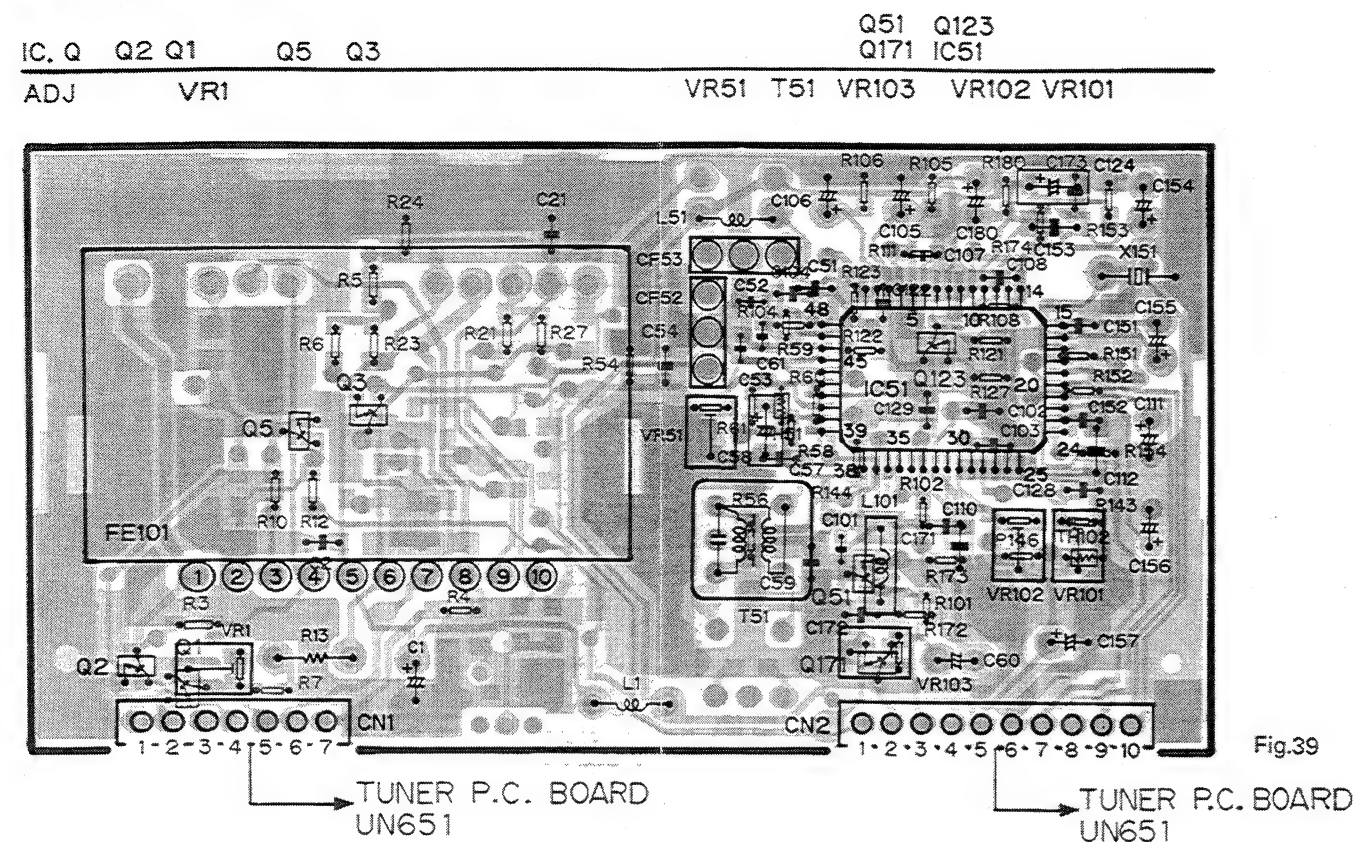


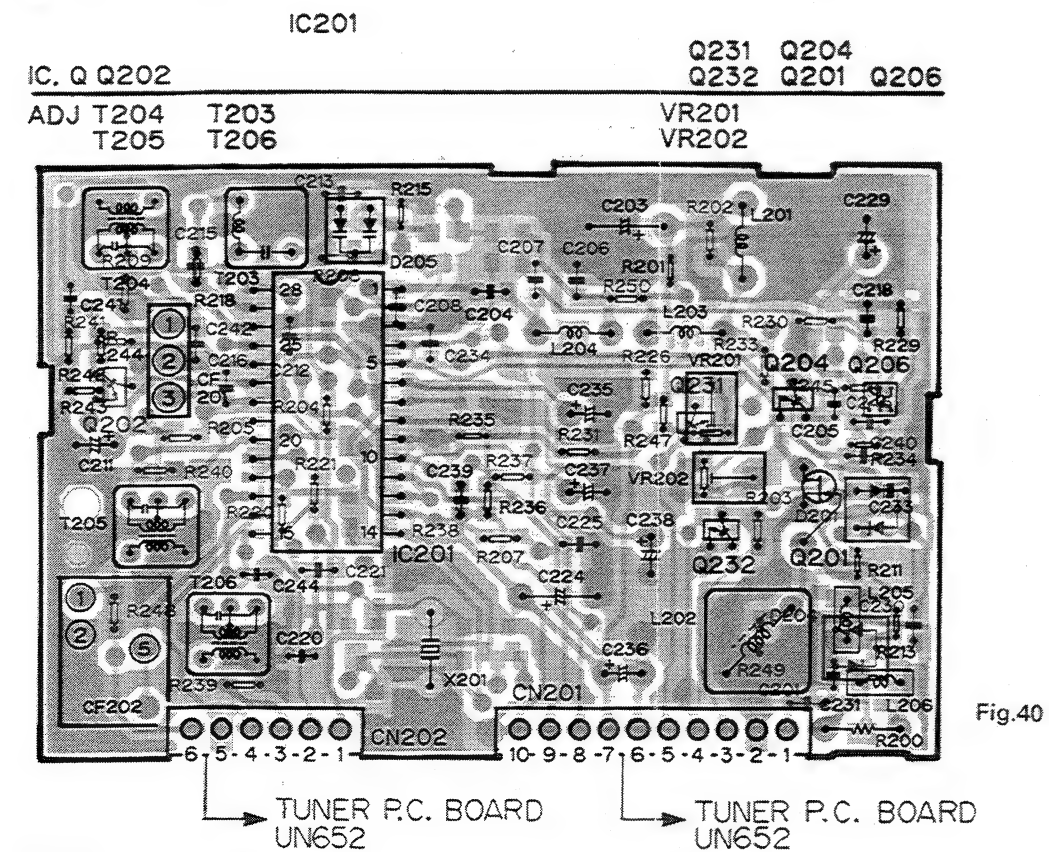
Fig.38

● Connection Diagram



4.17 AM UNIT(KEX-P8256ZT/EW,KEX-P8156ZT/EW)

● Connection Diagram



● Circuit Diagram

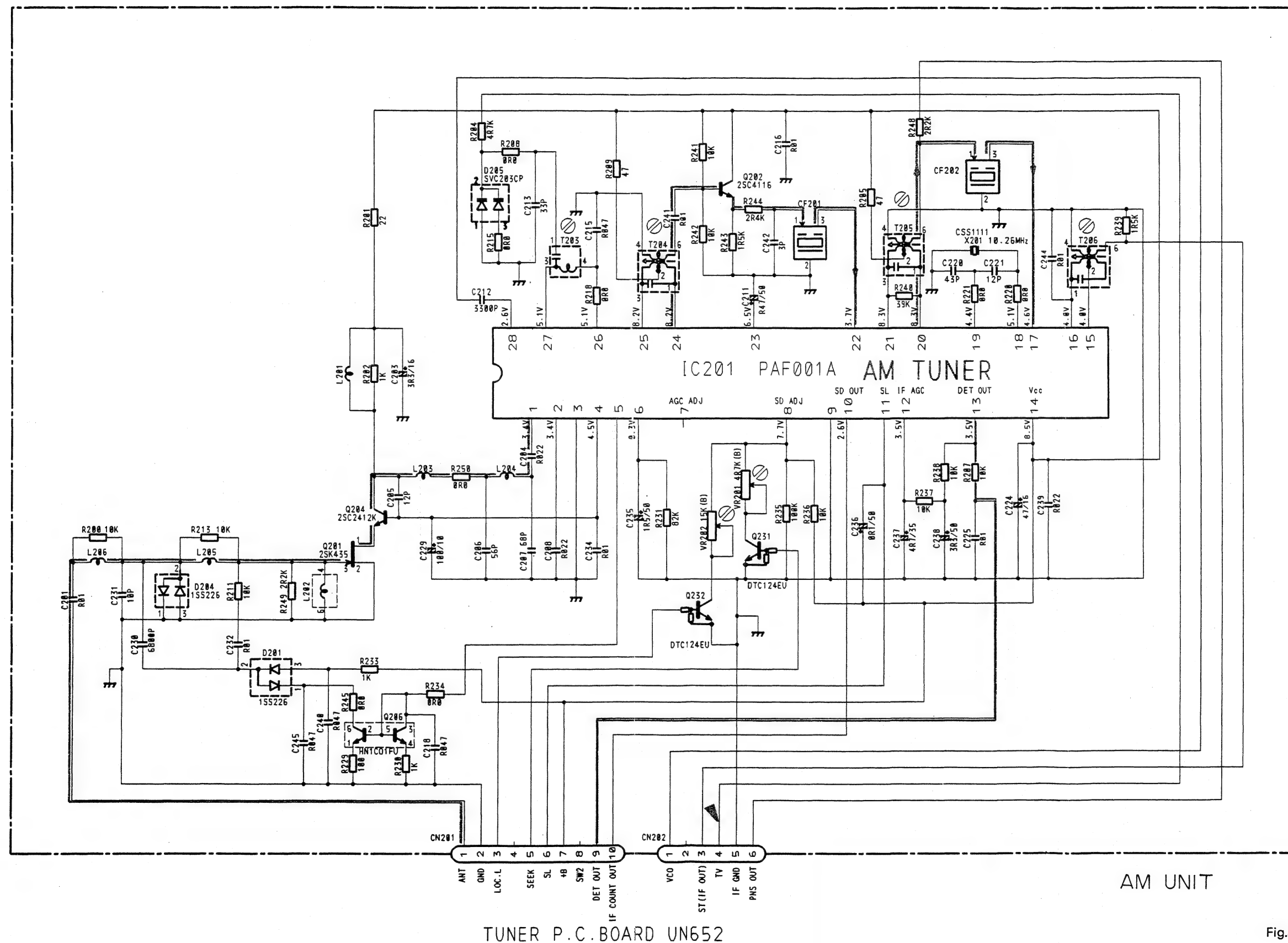


Fig.41

### ● Circuit Diagram

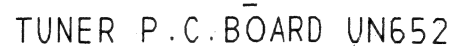


Fig.42

● Connection Diagram

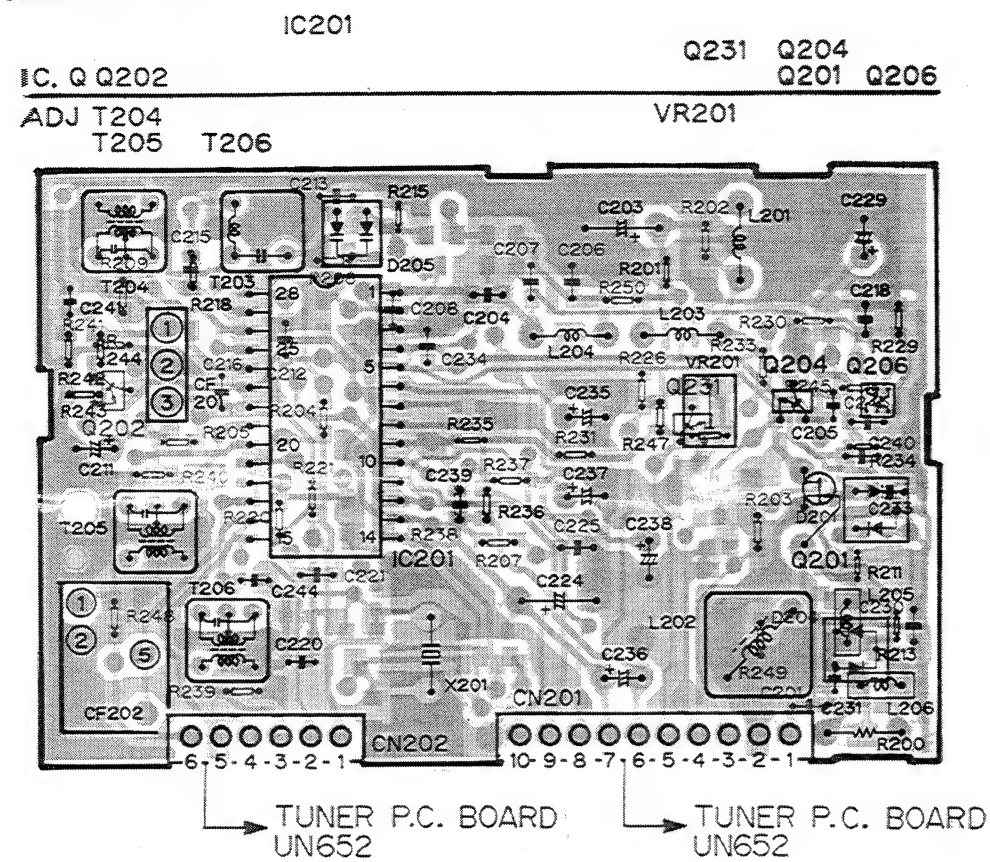


Fig.43

#### 4.19 AM UNIT(KEX-P8256ZT/AU)

● Connection Diagram

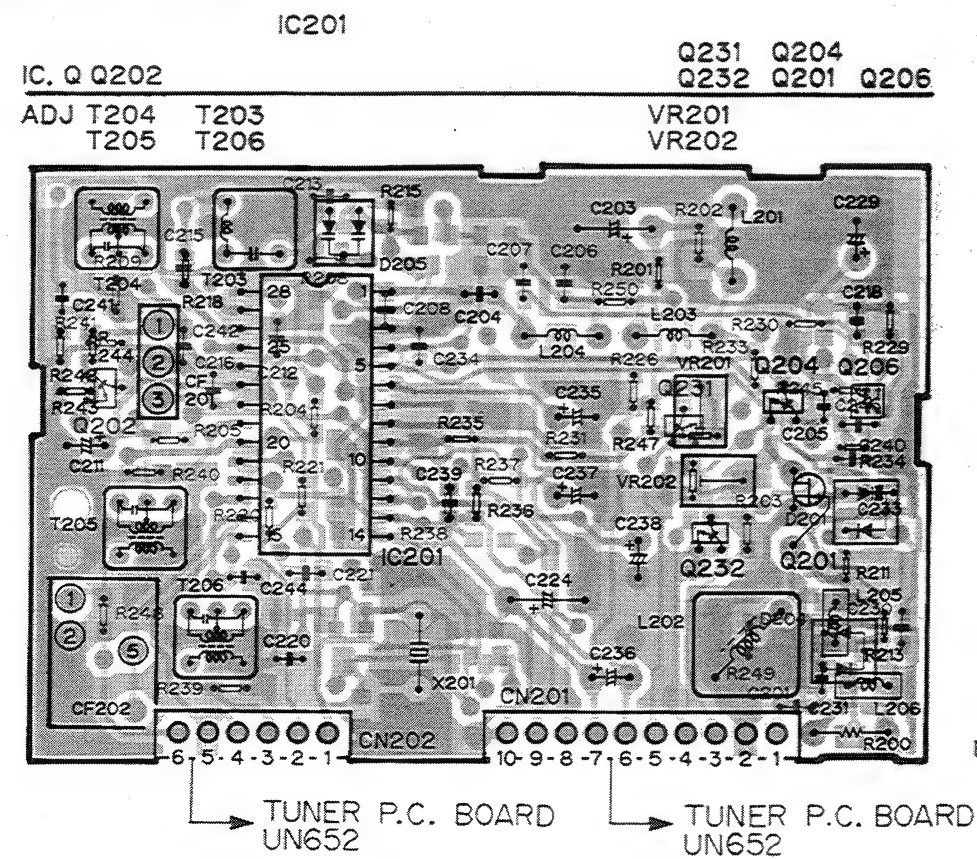


Fig.44



### ● Circuit Diagram

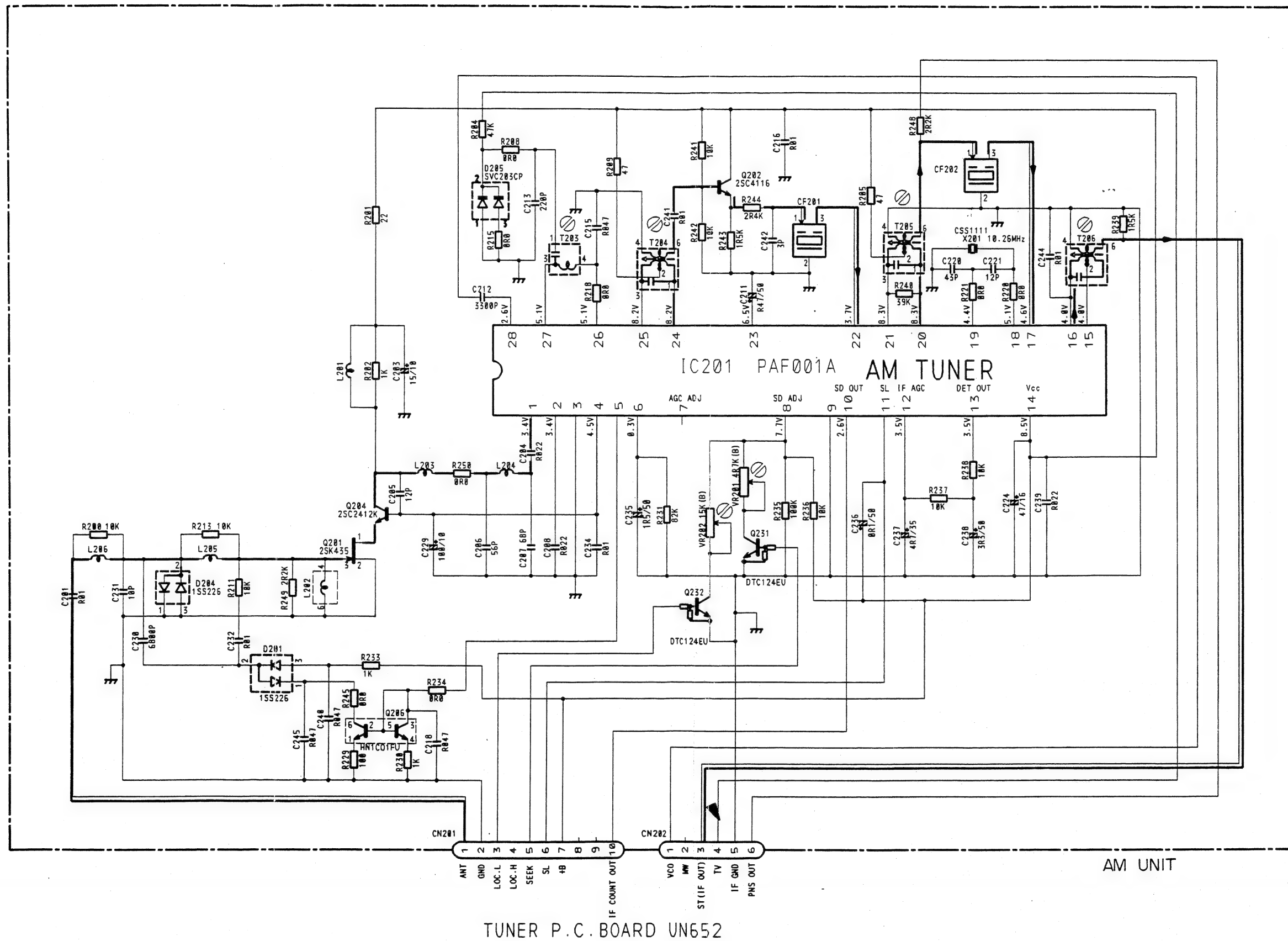


Fig.45

# 4.20 AM UNIT(KEX-P8256ZT/ES)

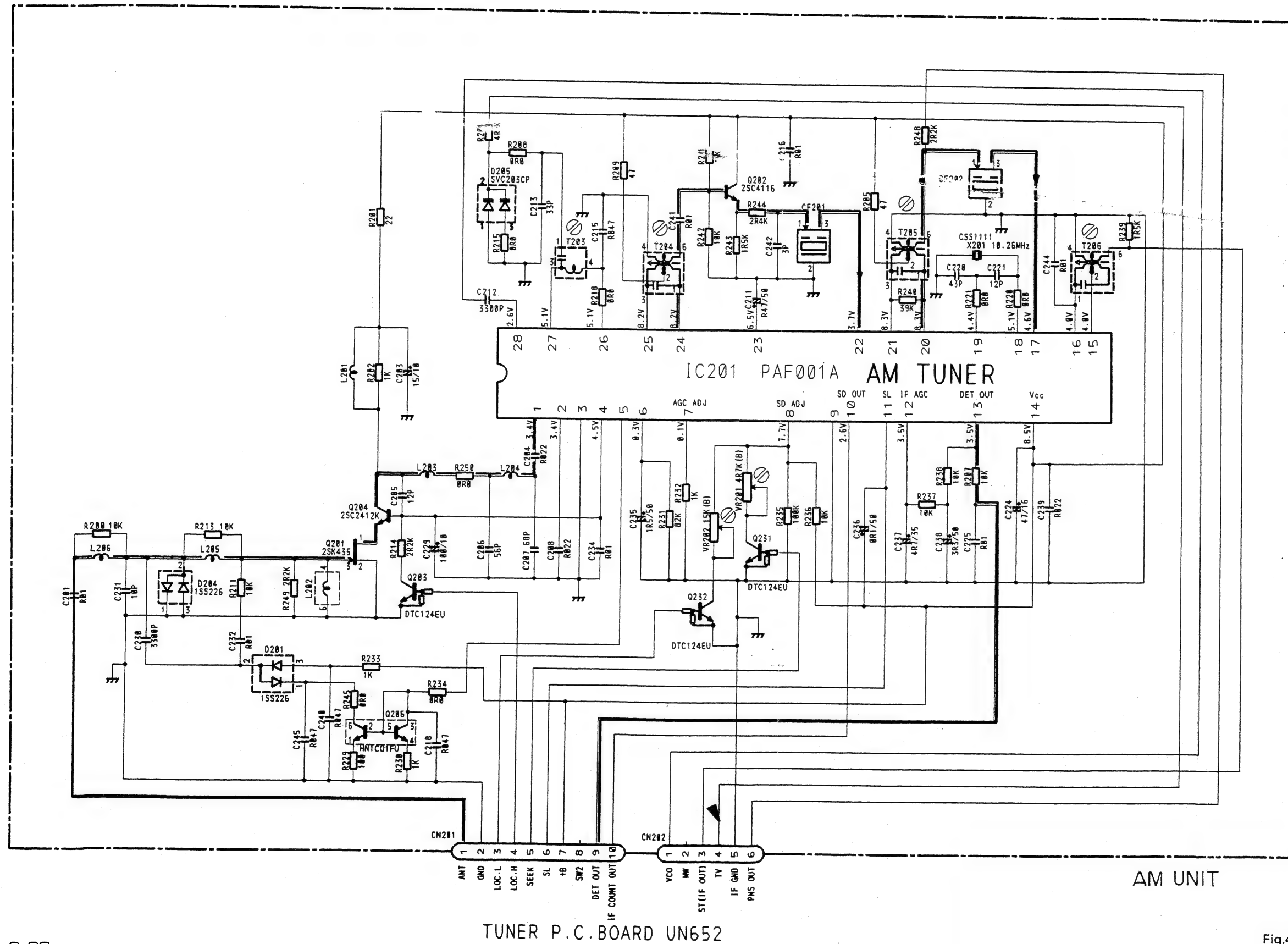
## ● Circuit Diagram

A

B

C

D



● Connection Diagram

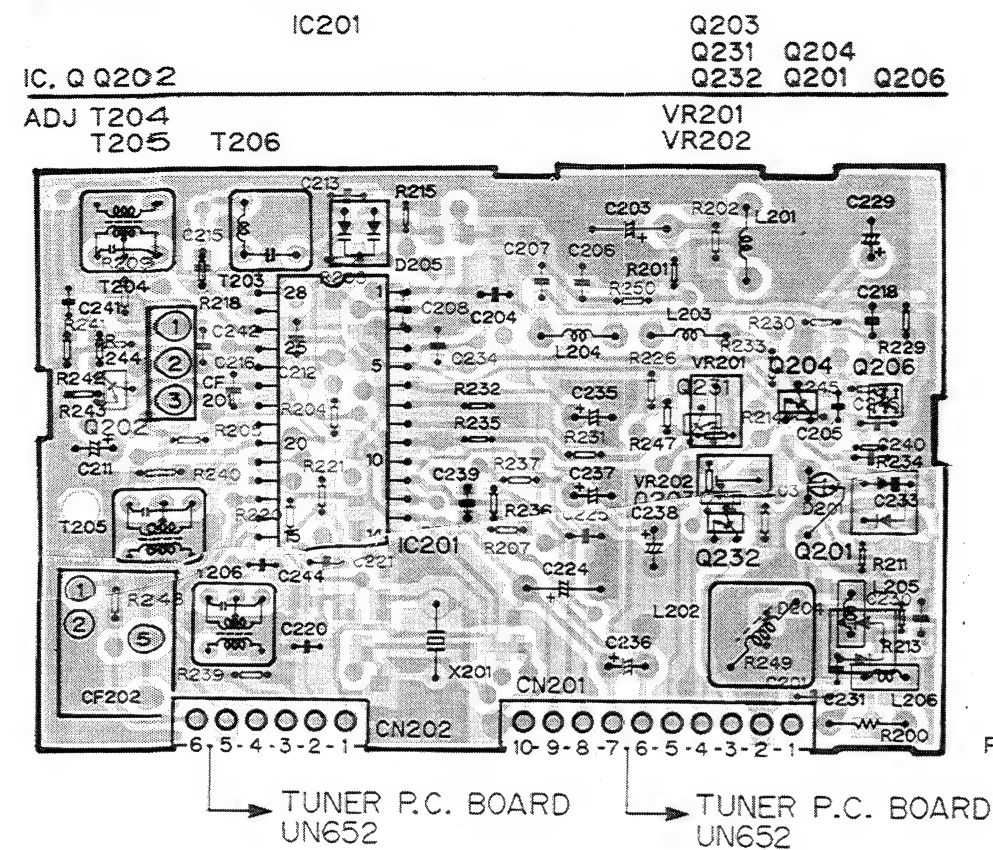


Fig.47

#### 4.21 MW/SW UNIT(KEX-P8156ZT/ES)

● Connection Diagram

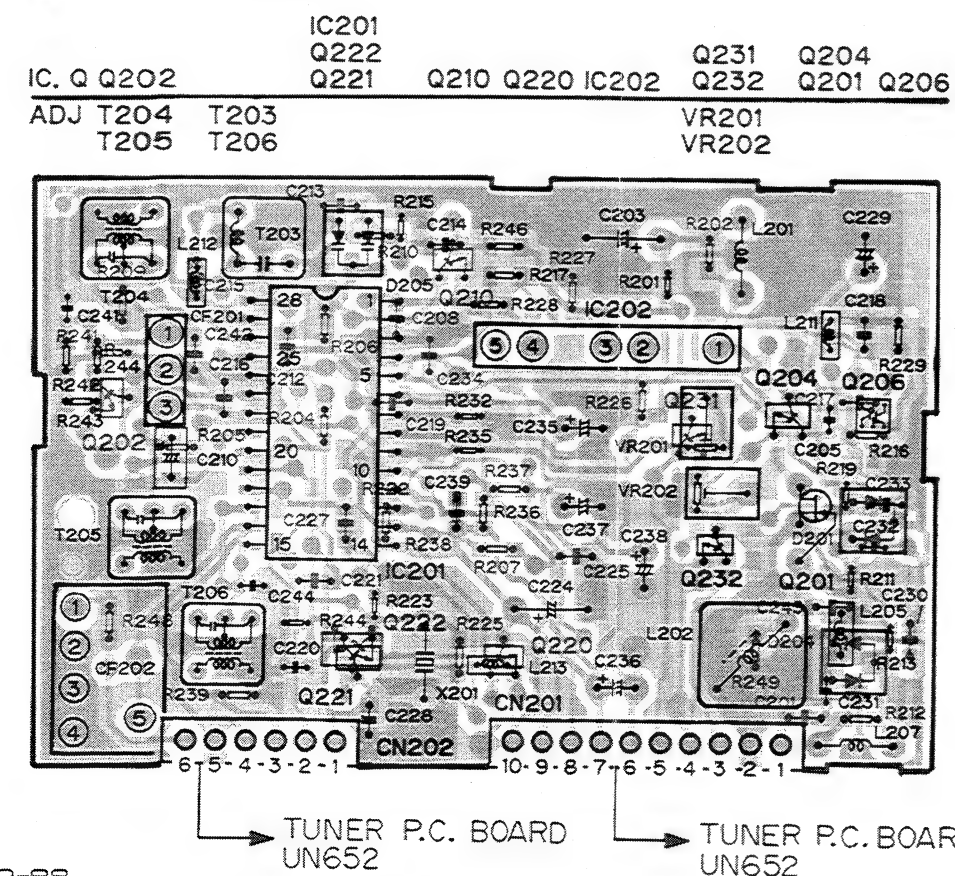


Fig.48

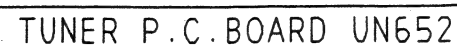


Fig.49  
2-90



4.22 AM STEREO UNIT(KEX-P8256ZT/AU)

● Circuit Diagram

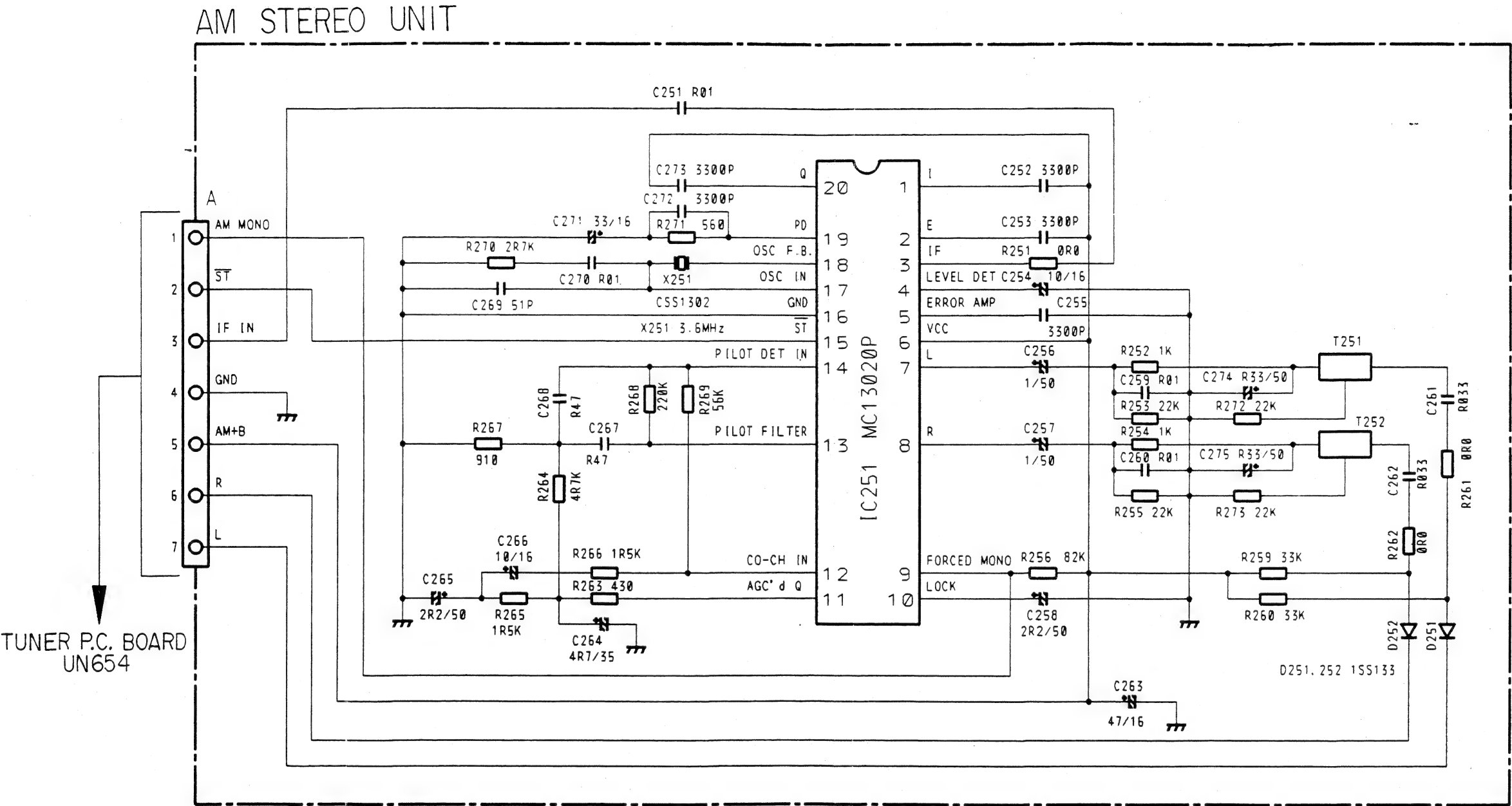


Fig.50

● Connection Diagram

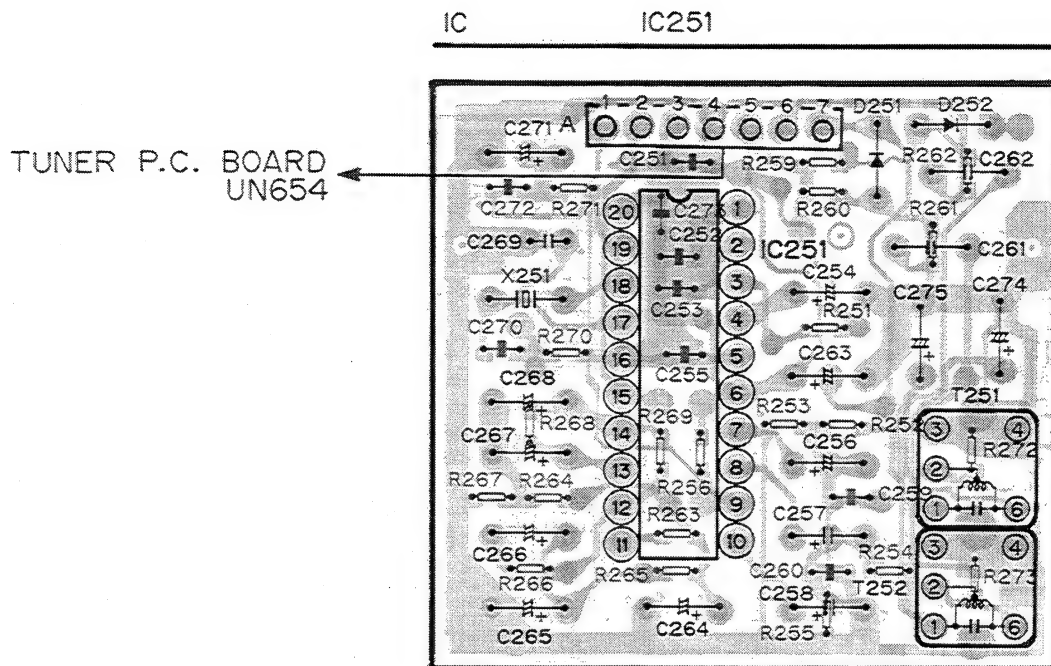


Fig.51

#### 4.23 CASSETTE MECHANISM MODULE(KEX-P8156ZT/UC,ES)

### ● Connection Diagram

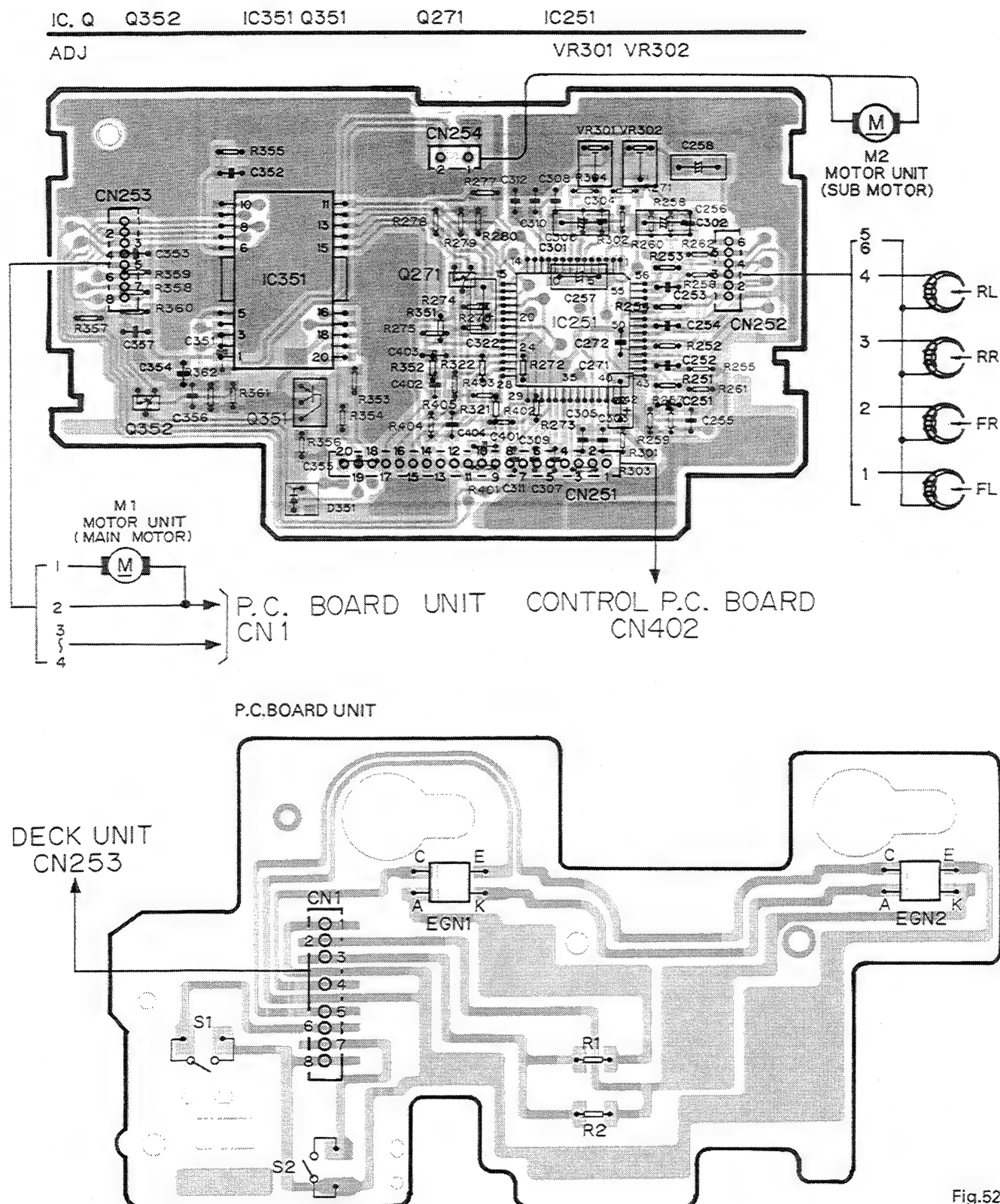


Fig.52

## ● Circuit Diagram

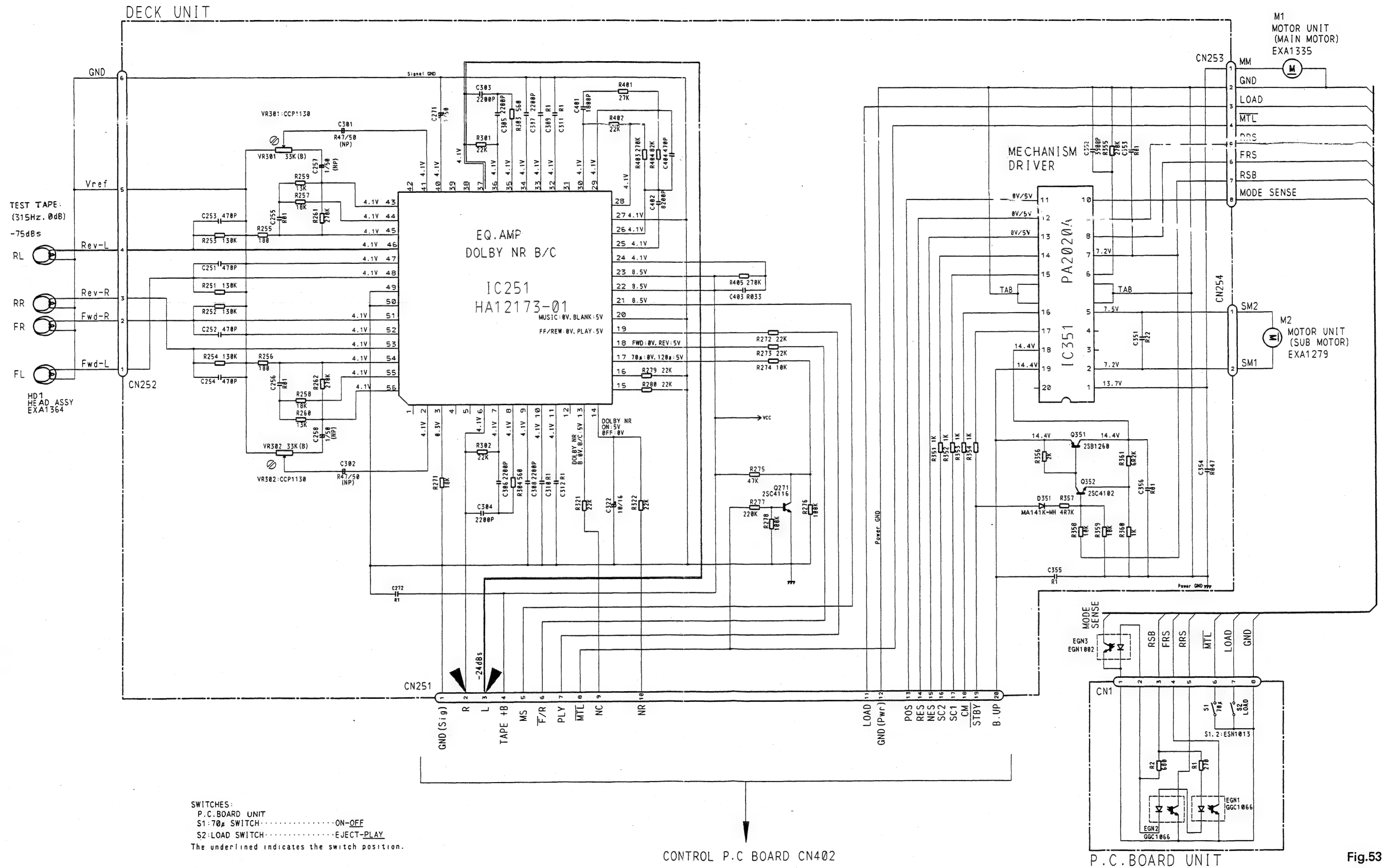


Fig.53

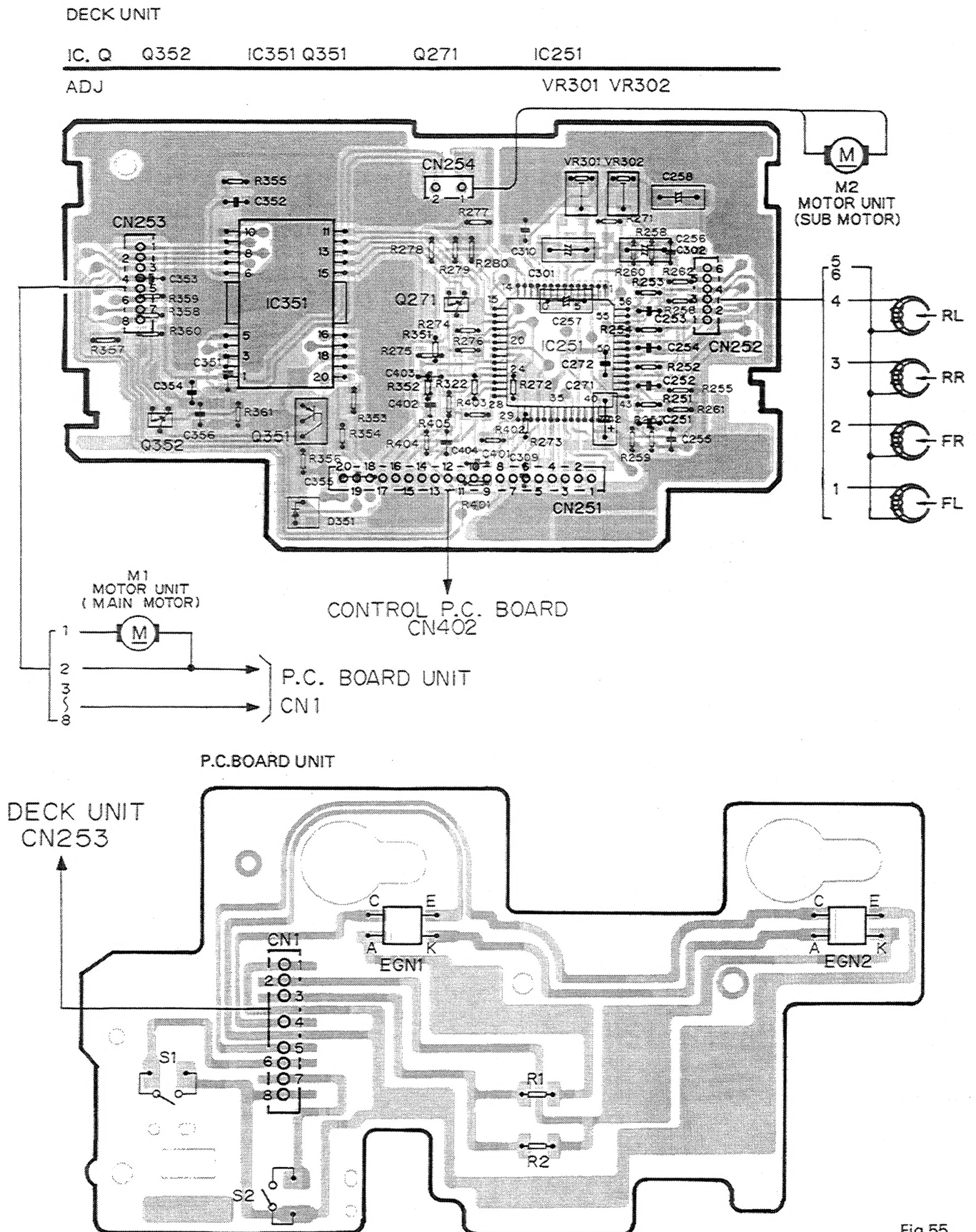


### ● Circuit Diagram



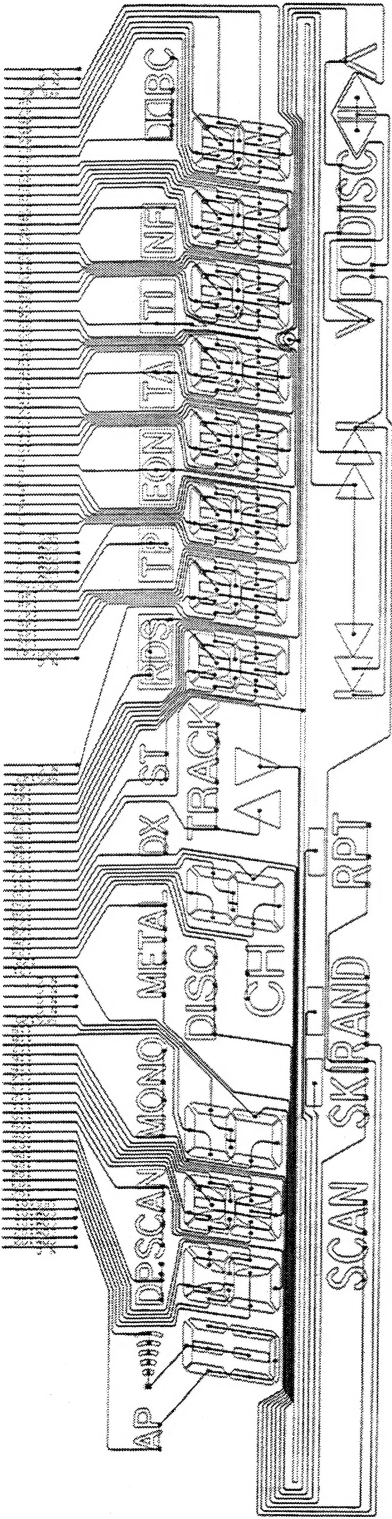
**Fig.54**

● Connection Diagram



● LCD(CAW1294)  
(KEX-P8256ZT/EW,AU,ES)

SEGMENT



COMMON

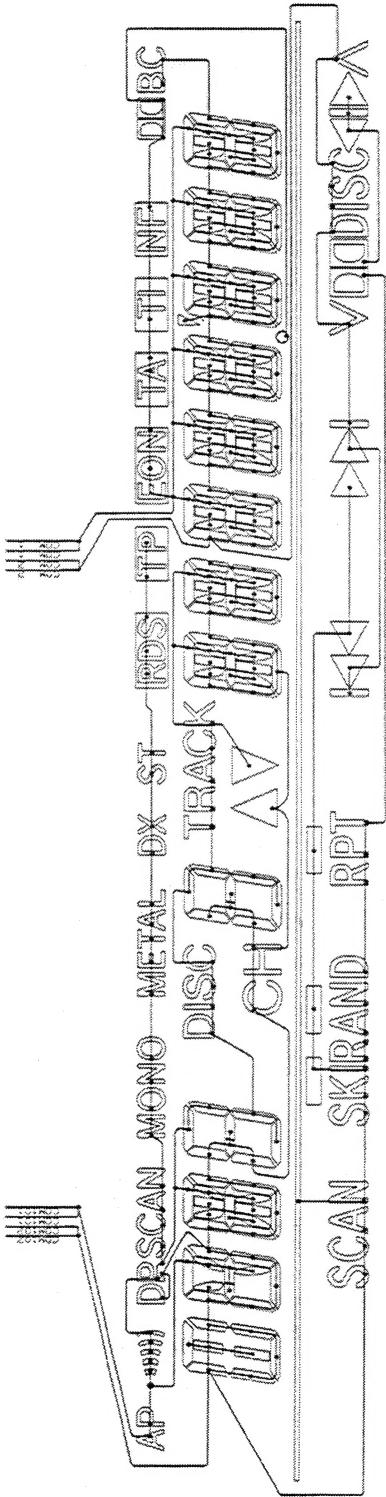
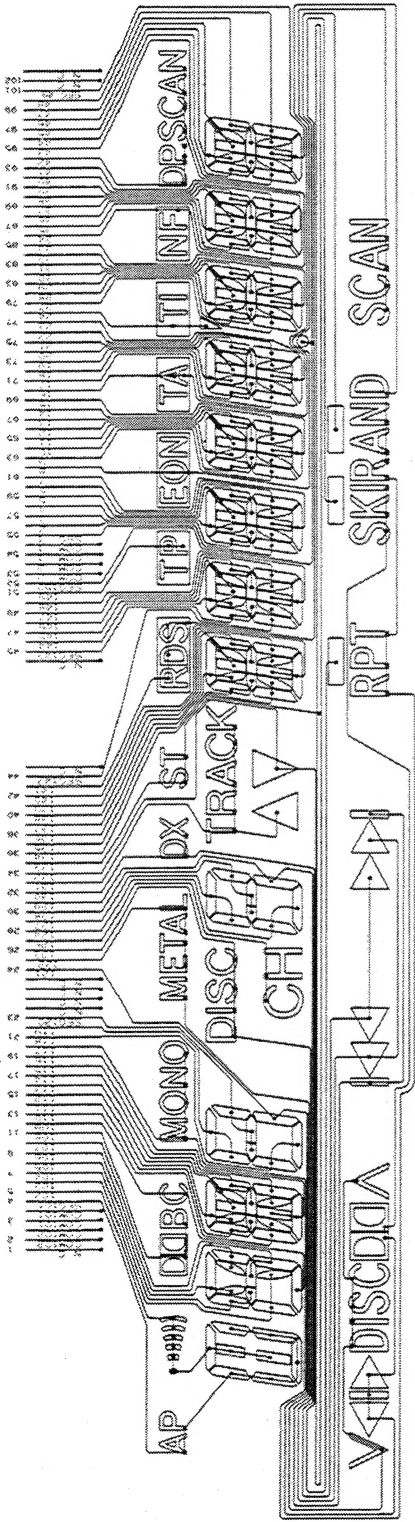


Fig.56

● LCD(CAW1293)  
(KEX-P8156ZT/EW,UC,ES)

SEGMENT



COMMON

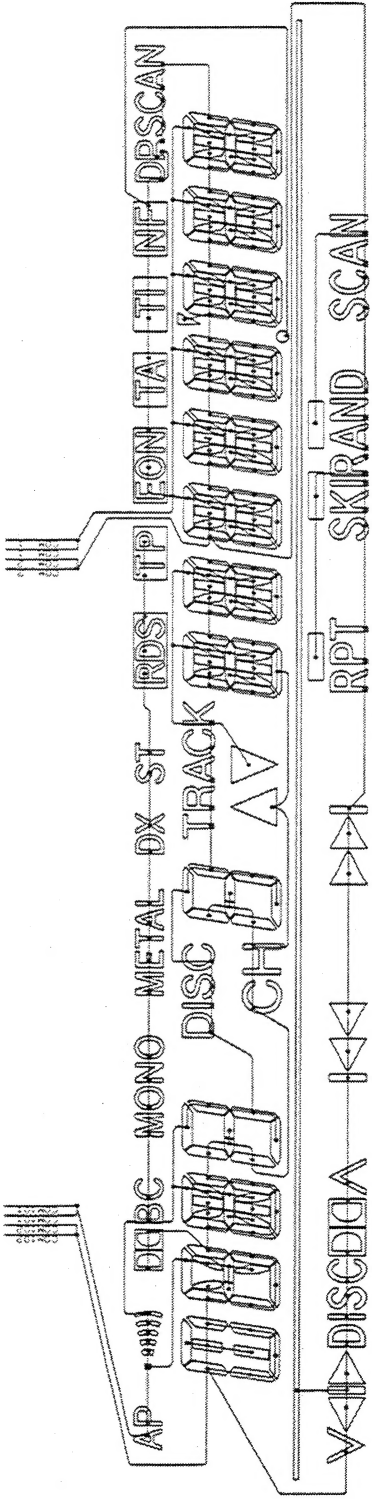


Fig.57